## Color and Material Schedule

**Project Address:** 662 Cottage

**Contractor:**

| | Location | Description | Manufacturer | Finish | Color | Notes |
|---|---|---|---|---|---|---|
| Lighting | Top landing of stairway to basement, Bedroom 1, Bedroom 2, Bedroom 3, Hall, Bedroom 1 walk-in closet, Bedroom 2 closet (6 total). | Flushmount Ceiling | Twin pack flush mount 15" satin nickel | | Satin Nickel | at Menards |
| | Top landing at stairway to second floor | Single light wall sconce | Carlton by Royce Lighting, Model RV5209ES1 | | Pewter finish | |
| | Kitchen Ceiling | 3 light flush ceiling mount | Carlton by Royce Lighting, Model RFM5209ES | | Pewter finish | |
| | Bathroom 1 and Bathroom 2 | 3-Light Vanity | Carlton by Royce Lighting, Model RV5209ES3 | | Pewter finish | |
| | Front Entry, Kitchen ceiling over sink | Mini-pendant | Carlton by Royce Lighting, Model RMP5209ES1 | | Pewter finish | |
| | Dining Room | 5 Light Chandelier | Carlton by Royce Lighting, Model RC5209ES5 | | Pewter finish | |
| | Garage and Rear Entry Door | Motion Detector Sconce Light | DualBrite 300 watt motion security light, Model SL-5318-WH-D | | | at Menards |
| | Front Entry Porch | Ceiling Light | Patriot Lighting, Mission - Model: OF2739CU | | black | at Menards |
| | Rear Entry Deck | Wall Light | Patriot Lighting, Mission - Model MND0092A | | black | |
| | Outlet and Switchplate Covers | | | | white | |
| Plumbing Fixtures | Kitchen | Kitchen Faucet | Moen, Model: 7825 | | Chrome | at Menards |
| | Kitchen | Kitchen Sink | Moen, 33"X22"X8" Model 2212 | | Stainless | at Menards |
| | Bathroom | Bathroom Faucet | Moen, Low Arc CA84002CBN | | Nickel | at Menards |
| | Bathroom | Recessed Oval Bowl Vanity Top | Imperial Marble, RC3722SPW | | White | at Menards |
| | Bathroom | Shower/Tub Faucet | Moen, Model 82008CBN | | Nickel | at Menards |
| | | | | | | |
| Casework and Furnishings | Kitchen | Kitchen Cabinets | Schock Pleasant Hill, or Midcontinent Lewis, full overlay 5-panel door and flat drawer | | Natural | Maple cabinet |
| | Kitchen | Kitchen Cabinet Hardware | Schrock pull H-63, Modern | | Brushed Nickel | at Menards or Home Depot |
| | Kitchen | Kitchen Counter Top | WilsonArt | | Canyon Black 1755-1 | at Menards |
| | Bathroom 1 | Bathroom Vanity | Pace, Meadowood Maple, Model: MDW3621 | | Natural | at Menards |
| | Bathroom 2 | Bathroom Vanity | Pace, Meadowood Maple, Model: MDW4821 | | Natural | at Menards |
| | Bathroom 1 and Bathroom 2 | Medicine Cabinet | Pace, Model: SMC-2530 | | Natural | at Menards |
| | Bathroom 1 and Bathroom 2 | Toilet Topper | Pace, Model: MOJ-2430-MDW | | Natural | at Menards |
| | Bathroom 1 and Bathroom 2 | Towel Bar, 2 | Moen, Model # DN6818xx | | Brushed Nickel | at Menards |
| | Bathroom 1 and Bathroom 2 | Towel Ring | Moen, Model #DN6886xx | | Brushed Nickel | at Menards |
| | Bathroom 1 and Bathroom 2 | Toilet Paper Holder | Moen, Model # DN6808xx | | Brushed Nickel | at Menards |
| | Bathroom 1 and Bathroom 2 | Curved Shower Rod | Moen, Model # DN2160xx | | Brushed Nickel | at Menards |
| | | | | | | |
| | Walls Throughout (except bathrooms and kitchen) | Wall Paint | Sherwin Williams No VOC, SW 6154 | flat | Nacre | |

| | | | | | | |
|---|---|---|---|---|---|---|
| Coatings | Walls Kitchen | Wall Paint | Sherwin Williams No VOC, SW 6154 | eggshell | Nacre | |
| | Walls Bathrooms | Wall Paint | Sherwin Williams No VOC, SW 6154 | eggshell | Nacre | |
| | Ceiling Throughout (except kitchen and bathrooms) | Ceiling Paint | Sherwin Williams No VOC | flat | ceiling white | Knock Down Finish |
| | Ceiling Kitchen and Bathrooms | Ceiling Paint | Sherwin Williams No VOC | eggshell | ceiling white | |
| | Trim Throughout | Stain and satin polyurethane | | satin | to be selected by Project Manager | Maple species |
| | Accent Color Wall | Wall Paint | Sherwin Williams No VOC, SW 7536 | flat | Bittersweet Stem | |
| | | | | | | |
| Flooring | Living, Dining, Front Entry area | Laminate | Tarkett | | Distressed Oak | |
| | Stairway to second floor, Hall, Bedroom 1, Bedroom 2 and Bedroom 3 | Carpet | Shaw, Serenity Garden I | | 78108 Barn Wood | |
| | Kitchen | Ceramic Tile floor | Florim USA, Istone | | Walnut | |
| | Bathroom 1 and 2 | Ceramic Tile floor | American Olean Unglazed Colorbody mosaic 1x2 and 1x1 mosaic, two color windmill pattern | matte | Salt and pepper (1x2) and Black (1x1) | |
| | Bathroom 1 and 2 | Ceramic Tile wall | American Olean Profiles 3x6 wall tile and base | gloss | white | |
| | | | | | | |
| Appliances | Kitchen | Range | Pre-purchased | | Stainless | |
| | Kitchen | Microhood | Pre-purchased | | Stainless | |
| | Kitchen | Refrigerator | Pre-purchased | | Stainless | |
| | Kitchen | Dishwasher | Pre-purchased | | Stainless | |
| | Basement | Washer | Pre-purchased | | White | |
| | Basement | Dryer | Pre-purchased | | White | |
| | | | | | | |
| Doors | Front Entry | Steel Entry Door | Mastercraft Model Craftsman | | | at Menards |
| | Rear Entry | Steel Entry Door | Mastercraft Model LT-10, half view w/ internal blind | | | at Menards |
| | Garage Service Door | Steel Entry Door | Mastercraft Model E-1, six panel | | | |
| | Interior doors | Interior Door | Four-panel wood | | | |
| | Front Entry Door Hardware | | Schlage Model 221-409x | | Satin Nickel | |
| | Interior Door Hardware | | Schlage Model 221-399x | | Satin Nickel | |
| | | | | | | |
| Exterior Finishes | House Siding | Fibercement, Pre-purchased | Pre-primed Hardie, Sherwin Williams Paint | | SW6207 Retreat | |
| | Garage Siding | Fibercement | Pre-primed Hardie, Sherwin Williams Paint | | SW6207 Retreat | |
| | Roof | Asphalt Shingles, Pre-purchased | GAF Elk Timberline | | Weathered Wood | |
| | Windows | Metal Clad Wood | Marvin | | Cashmere exterior, stain to match interior doors on interior | |
| | Door and Window Trim, Front Porch Columns, Beams and Railings | Fibercement | Pre-primed Hardie, Sherwin Williams Paint | | SW7012 Creamy | |
| | Front Entry, Rear Entry and Garage Service Doors | | Sherwin Williams Paint | | SW7548 Portico | |
| | Soffit/Fascia | Aluminum color | | | Match SW7012 Creamy | |
| | Deck/Porch | Stain color | Sherwin Williams Stain | | SW3518 Hawthorne | |
| | Gutters/Downspouts | Aluminum color | Edco | | Match SW7012 Creamy | at United Products |

Materials Pre-Purchased for: 662 Cottage Avenue

1. **Menards garage kit**
   Includes: framing and roof trusses, sheathing, service door and small window (see attached invoice for details)

2. **All, Inc. Appliances**
   Refrigerator: FFHT2126LS/K Energy Star Rated 21 cu ft top mount refrigerator, stainless steel, with icemaker
   Range: FFGF3053LS Frigidaire 30" Free-Standing Gas Range, Self Clean, Clock
   Microwave/Hood: FFMV162LS Over the Range Micro/Hood, to be vented to exterior
   Dishwasher: FGHD2433KF Energy STAR 24" Built-In Dishwasher, including dishwasher cord
   Washer: FAFW3801LW Energy STAR Residential Front Load Washer
   Dryer: FAQG7001LW Residential Gas Dryer

3. **Lampert Roofing**
   Includes: GAF Elk Timberline 30 year HD shingles, Timbertex, Ice & Water shield and 15 lb felt
   Shingle Color: Weathered Wood
   Shingle Location: House and New Garage

4. **Lampert Siding**
   Includes: Pre-primed Hardie Siding and Tyvek Housewrap
   Siding Location: House and New Garage

Delivery of all materials to the job site is included in pre-purchase. Contractor is responsible for contacting specified vendor to arrange for and take delivery. See attached invoices for specifics and vendor contact information.

# Delivery Agreement - Guest Copy

## Delivery Agreement # 4466808



CASHIER- Press 'Recall Trans' before scanning each of the barcodes below. You must scan ALL of the barcodes on this page. If there are additional pages of barcodes attached to this Delivery Agreement, each barcode on those sheets must be scanned as well

78241

| Guest Name - Address - Phone - Email |
|---|
| City of St Paul<br>662 Cottage<br>Saint Paul, MN 55104<br>(651)266-6581 NA NA |

| Setup Date: | 01/30/2012 |
|---|---|

| DELIVERY ADDRESS |
|---|
| 622 cottage<br>Saint Paul, MN 55104 |

| PICKING LISTS TO BE DELIVERED | |
|---|---|
| 78207<br>30118978 | |
| TOTAL: | |

### TERMS AND CONDITIONS

1. The delivery charge will be as per the "Delivery Charge Rate Card," plus fuel surcharge if applicable.

2. Deliveries are during store operating hours. All efforts will be made to accommodate requested times.

3. All loads are taken off the truck and set/dumped (placed) on the driveway unless additional handling charges are paid

4. Adequate access and sufficent area is required to dump or unload materials on level grade. If the driver is instructed to unload the material in such a place that is likely to tear up a lawn, crack cement by driving over it, get the truck or material stuck, etc. the delivery service is not responsible and the delivery guest assumes complete responsibilty.

5. I agree that the delivery will be provided by an independently owned delivery service. I agree that all disputes over any damages I may suffer due to this delivery including damaged merchandise or shortages will be resolved through the delivery service and therefore agree to hold Menards and its employees harmless due to such damages.

**By purchasing this service and/or accepting product that is delivered, the purchaser agrees to the terms and conditions detailed above.**

### DELIVERY SERVICE

**For Delivery Services Inquiries Please Contact:**

Jim Thuman's Trucking

Jim Thuman
724 Madison St. NE
Minneapolis,MN 55413
Business Phone:(651)246-3452
Cell Phone:(651)246-3452
Email:jtdj6258@msn.com
**Insured through:**
Hatch Agency, Inc
6121 Baker Rd Suite 102
Minnetonka, MN 55345
**Agent:**Mike Hatch
(952)933-8080
mhatch@hatchagency.com

| DELIVERY PLACEMENT AND SPECIAL INSTRUCTIONS | DELIVERY CHARGES |
|---|---|
| garage package Quantity: 1 Placement: Driveway Comments: | Included |
| Mileage Charge Zone A Trip 1 Delivery Date: PENDING Delivery Time: PENDING | |
| TOTAL DELIVERY CHARGES | |

# MENARDS® PICKING LIST - GUEST COPY

STORE # 3181 SPMW
2005 W. University Ave.
St. Paul, MN 55104

PHONE: (651) 645-1295
FAX: (651) 645-9809

**CASHIER - PRESS RECALL TRANS AND SCAN BARCODE ==>**

**SPMW 78207**

**CASHIER:**

**PLEASE STAPLE**

**RECEIPT HERE.**



SOLD BY: mks
DATE: 01/30/12

GUEST NAME - ADDRESS - PHONE

City of St Paul
662 Cottage Ave
Saint Paul, MN 55104

Ph: (651) 266-6581

| QUANTITY | DESCRIPTION | | SKU NUMBER | UNIT PRICE | EXTENDED PRICE |
|---|---|---|---|---|---|
| 82 EACH | 2X4X92 5/8" SPF CONSTR | STUD | 102-1091 | | |
| 8 EACH | 2X4X10' STUD/#2+BTR SPF | CONST LUMBER | 102-1114 | | |
| 12 EACH | 2X4X12' #2+BTR SPF | CONST LUMBER | 102-1127 | | |
| 4 EACH | 2X4X14' #2+BTR SPF | CONST LUMBER | 102-1130 | | |
| 8 EACH | 2X4X16' #2+BTR SPF | CONST LUMBER | 102-1143 | | |
| 2 EACH | 2X6X8' STUD/#2+BTR SPF | CONSTR LUMBER | 102-1758 | | |
| 8 EACH | 2X6X14' #2+BTR SPF | CONSTR LUMBER | 102-1787 | | |
| 2 EACH | 2X12X18' #2&BTR FIR CONST | LUMBER | 102-2197 | | |
| 1 EACH | 2X4-6' AC2 TREATED AG | ARSENIC FREE LW | 111-0805 | | |
| 3 EACH | 2X4-10' AC2 TREATED AG | ARSENIC FREE LW | 111-0821 | | |
| 3 EACH | 2X4-12' AC2 TREATED AG | ARSENIC FREE LW | 111-0834 | | |
| 1 EACH | 1/2'' (15/32)-4'X8' CDX | 3-PLY 3-BLK STR | 123-1085 | | |
| 23 EACH | 7/16'' (14/32)-4'X8' OSB | 3-WHITE STRIPES | 124-2728 | | |
| 23 EACH | 1/2" (16/32)-4'X8' OSB | 2WHT 1BLK STRPE | 124-2809 | | |
| 2 EACH | 3 1/2" X 50' SILL SEALER FOAM | | 161-1602 | | |

**TO AVOID PRODUCT NOT BEING AVAILABLE ON A LATER DATE PLEASE PICK UP ALL MERCHANDISE TODAY. THANK YOU.**

This is a quote valid today. Upon payment this quote becomes a yard picking list subject to the terms and conditions below. Quantities listed above may exceed quantities available for immediate pick-up. Product is not held for a specific guest, but instead is available to the buying public on a first come, first serve basis. Please pickup all purchases made on this picking list immediately. Failure to pick up products on this picking list today will result in additional charge to you if, on the day of pick up, the retail price of the products are higher than on the day purchased. Menards liability to you is limited to refunding your original purchase price for any product not picked up.

**Guest Instructions:**

1. **Take this picking list to a cashier to pay for the merchandise.**
2. **Enter the outside yard to pick up your merchandise. (All vehicles are subject to inspection.)**
3. **Load your merchandise. (Menards Team Members will gladly help you load your materials but cannot be held liable for damage to your vehicle.)**
4. **When exiting the yard, present this list to the Gate Guard. (The Gate Guard will record the items you are taking with you.)**
5. **Sign the Gate Guard's signature pad verifying you've received the merchandise.**

PRE-TAX TOTAL: (CONTINUED)

Our insurance does not allow us to tie down or secure your load, trunk lid, etc. For your convenience, we supply twine, but you will have to decide whether or not your load is secure and if the twine supplied is strong enough. If you do not believe the twine will suffice, stronger material can be purchased inside the store.

**READ THE TERMS AND CONDITIONS CAREFULLY.** All returns are subject to Menards' posted return policy. In consideration for Menards low prices you agree that if any merchandise purchased by you is defective, Menards will agree to exchange the merchandise or refund the purchase price based on the form of original payment. You agree that there shall be no other remedy available to you. If there is a warranty provided by the manufacturer, that warranty shall govern your rights and Menards shall be selling the product "AS IS." Oral statements do not constitute warranties, and are not a part of this contract. The guest agrees to inspect all merchandise prior to installing or using it. **UNDER NO CIRCUMSTANCES SHALL MENARDS BE LIABLE FOR ANY SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES. MENARDS MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE MERCHANDISE.** Any controversy or claim arising out of or relating to this contract, or the breach thereof, shall be settled by arbitration administered by the American Arbitration Association under its applicable Consumer or Commercial Arbitration Rules, and judgments on the award rendered by the arbitrator(s) may be entered in any court having jurisdiction thereof. The guest agrees to these terms and conditions through purchase of merchandise contained on this document.

**THIS IS NOT A RECEIPT**

**GATE GUARD - SCAN HERE ==>**

# MENARDS® PICKING LIST - GUEST COPY

STORE # 3181 SPMW
2005 W. University Ave.
St. Paul, MN 55104

PHONE: (651) 645-1295
FAX: (651) 645-9809

**CASHIER - PRESS RECALL TRANS AND SCAN BARCODE ==>**

**SPMW 78207**

**PAGE 2 OF 2**

**CASHIER:**

**PLEASE STAPLE**

**RECEIPT HERE.**

SOLD BY: mks
DATE: 01/30/12

GUEST NAME - ADDRESS - PHONE

City of St Paul
662 Cottage Ave
Saint Paul, MN 55104

Ph: (651) 266-6581

| QUANTITY | DESCRIPTION | | SKU NUMBER | UNIT PRICE | EXTENDED PRICE |
|---|---|---|---|---|---|
| 1 EACH | BB ENTRY GEORGIAN KNOB | F51VGEO505 | 221-3918 | | |
| 4 EACH | 1/2"PLYWD CLIP STEEL 25/ | BPC12-BMC 10BGS/ | 227-1303 | | |
| 20 EACH | RAFTER TIE | RT15-TZ | 227-1647 | | |
| 1 EACH | 36X24 VINYL SLIDER | CLEAR GLASS | 403-0633 | | |
| 1 EACH | CM1 6-PANEL STEEL DOOR PH | 36X80 LH SB | 414-1554 | | |
| 1 EACH | PINE TAPERED SHIMS 12 CT | 3/8X1-1/4X8'' | 433-4222 | | |

## TO AVOID PRODUCT NOT BEING AVAILABLE ON A LATER DATE PLEASE PICK UP ALL MERCHANDISE TODAY. THANK YOU.

This is a quote valid today. Upon payment this quote becomes a yard picking list subject to the terms and conditions below. Quantities listed above may exceed quantities available for immediate pick-up. Product is not held for a specific guest, but instead is available to the buying public on a first come, first serve basis. Please pickup all purchases made on this picking list immediately. Failure to pick up products on this picking list today will result in additional charge to you if, on the day of pick up, the retail price of the products are higher than on the day purchased. Menards liability to you is limited to refunding your original purchase price for any product not picked up.

**Guest Instructions:**

1. **Take this picking list to a cashier to pay for the merchandise.**
2. **Enter the outside yard to pick up your merchandise. (All vehicles are subject to inspection.)**
3. **Load your merchandise. (Menards Team Members will gladly help you load your materials but cannot be held liable for damage to your vehicle.)**
4. **When exiting the yard, present this list to the Gate Guard. (The Gate Guard will record the items you are taking with you.)**
5. **Sign the Gate Guard's signature pad verifying you've received the merchandise.**

Our insurance does not allow us to tie down or secure your load, trunk lid, etc. For your convenience, we supply twine, but you will have to decide whether or not your load is secure and if the twine supplied is strong enough. If you do not believe the twine will suffice, stronger material can be purchased inside the store.

**READ THE TERMS AND CONDITIONS CAREFULLY.** All returns are subject to Menards' posted return policy. In consideration for Menards low prices you agree that if any merchandise purchased by you is defective, Menards will agree to exchange the merchandise or refund the purchase price based on the form of original payment. You agree that there shall be no other remedy available to you. If there is a warranty provided by the manufacturer, that warranty shall govern your rights and Menards shall be selling the product "AS IS." Oral statements do not constitute warranties, and are not a part of this contract. The guest agrees to inspect all merchandise prior to installing or using it. **UNDER NO CIRCUMSTANCES SHALL MENARDS BE LIABLE FOR ANY SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES. MENARDS MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE MERCHANDISE.** Any controversy or claim arising out of or relating to this contract, or the breach thereof, shall be settled by arbitration administered by the American Arbitration Association under its applicable Consumer or Commercial Arbitration Rules, and judgments on the award rendered by the arbitrator(s) may be entered in any court having jurisdiction thereof. The guest agrees to these terms and conditions through purchase of merchandise contained on this document.

**THIS IS NOT A RECEIPT**

**GATE GUARD - SCAN HERE ==>**

MENARDS®

SPMW 30118978

CASHIER:

PLEASE

STAPLE

RECEIPT

HERE.

# SPECIAL ORDER CONTRACT
## GUEST COPY

STORE # 3181 SPMW
2005 W. University Ave.
St. Paul, MN 55104

PHONE: (651) 645-1295
FAX: (651) 645-9809

**THANK YOU!**

| GUEST NAME - ADDRESS - PHONE |
|---|
| City of St Paul<br>662 Cottage<br>Saint Paul, MN 55104<br>Ph: (651) 266-6581 |

ESTIMATED ARRIVAL DATE
NOT BINDING ON MENARD, INC.
BASED ON PROMISES BY OTHERS 02/09/12

| SOLD BY | ORDER DATE |
|---|---|
| DAVIT G. | 01/30/12 |

| QTY ORDERED | DESCRIPTION | | SKU | UNIT PRICE | EXTENDED PRICE |
|---|---|---|---|---|---|
| 10 EACH | 22'STD 4/12 2'OC 2'OH | 62# | 187-1267 | | |
| 2 EACH | 22' STUDDED END FRAME | 4/12 PITCH | 187-1283 | | |

**This is a quote valid today. This quote becomes an order upon payment and a valid Menards receipt for this order is attached.**

**READ THIS CONTRACT CAREFULLY.** The terms and conditions set forth in this document are a complete and final expression of the parties. Any and all claims under this special order contract must be brought within one year of the purchase of said merchandise. **Special order merchandise** may be refunded at Menards sole discretion with a **25% restocking fee.** The purchaser is responsible for all measurements, sizes, and colors as stated above. The purchaser's exclusive remedy if the merchandise is defective or fails to conform to the terms of the contract is replacement of the merchandise. All defects and non-conformities must be reported to Menards within 3 days upon receipt of the merchandise. If there is a specific written warranty from the manufacturer the purchaser understands that this merchandise is sold on an **"AS IS,"** basis and the manufacturer's warranty shall govern my rights. **MENARDS MAKES NO WARRANTIES, EXPRESS OR IMPLIED AS TO THE MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE MERCHANDISE.** If the exclusive remedy fails its essential purpose, Menards liability shall not exceed the purchase price of the merchandise. **MENARDS SHALL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES.** In the event that the purchaser refuses to and or fails to pick up the merchandise within 30 days after receiving notification of its availability, Menards may liquidate the merchandise and shall be entitled to **25%** the purchase price as liquidated damages. Menards may withhold any payment received as partial satisfaction for its damages. If the vendor, which supplies the merchandise on this contract fails to perform, the purchaser agrees that Menards shall not be liable. Because of wide variations in codes, there are no representations that the materials listed herein meet your code requirements. The Purchaser agrees that any controversy or claim arising out of or relating to this contract, or the breach thereof, shall be settled by binding arbitration administered by the American Arbitration Association under its applicable Consumer or Commercial Arbitration Rules. A judgment on an award rendered by the arbitrator(s) may be entered in any court having jurisdiction thereof.

**YOUR PURCHASE OF THE MERCHANDISE ON THIS CONTRACT CONSTITUTES TERMS AND CONDITIONS LISTED IN THE CONTRACT.**

SUB-TOTAL:

SHIPPING:

PRE-TAX TOTAL:

VENDOR: MIDWEST MANUFACTURING

For the most accurate and up-to-date status of your order, please visit:

**www.menards.com**

**If this is a partial pickup, please verify all quantities/items being signed for. Menards is not responsible for shortages after leaving the yard.**

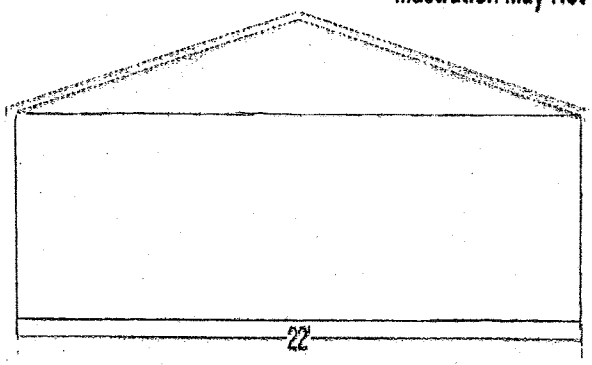
# Design # 74105

MENARDS Design-It Garage

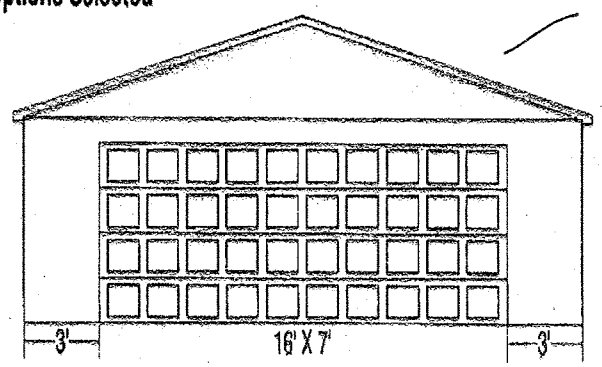


## *** Here are the wall configurations for your design.

Illustration May Not Depict All Options Selected

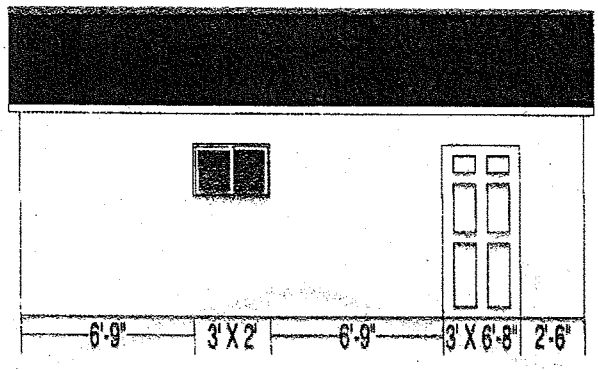



Gable Front View

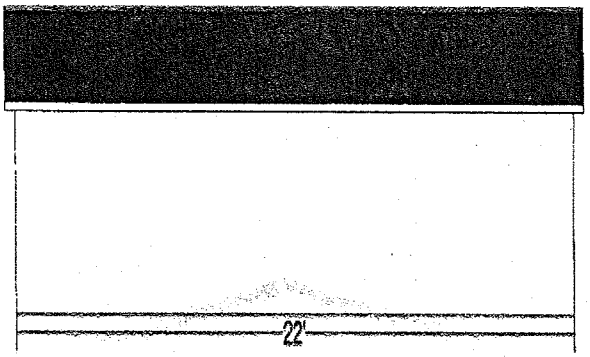



12/4 pitch

(1) - 16X7 WHITE NONINSL RAISEDPNL EXTSP M5ST




Eave Front View
(1) - 36X24 SELECT 100 SLID IGPC2SG3020
(1) - CM1 6-PANEL STEEL DOOR PH36X80 RH SB




Eave Back View

Building Size: 22 feet wide X 22 feet long X 8 feet high

Approximate Peak Height: 12 feet 0 inches (144 inches)

** ACKNOWLEDGEMENT **

Order #: S1276812
P/O # : 662 COTTAGE AVE E
Printed: 09:51:01 26 JAN 2012
Page # : 1 of 2
Order Phone: 651-266-6581
Cust. Phone: 651-266-6581

Sold To:
CITY OF ST. PAUL
DEPT PLANNING ECONOMIC / HRA
25 WEST 4TH STREET, SUITE 1100
SAINT PAUL, MN 55102
** C.O.D. ** C.O.D. ** C.O.D. **

Ship To:
CITY OF ST. PAUL
DEPT PLANNING ECONOMIC / HRA
662 COTTAGE AVE E
ST. PAUL, MN 55130

| Ordered by | Order Date | Ship Date | Ship Via | Warehouse |
|---|---|---|---|---|
| PER RAGNELLO | 01/24/12 | 12/01/12 | OT DELIVERY | Shp 1 Prc 1 |

| Writer | Salesperson | Release # | Freight Allowed |
|---|---|---|---|
| Edmund Rustin | Ross Agnello | 662 COTTAGE AVE E | No |

| Ordered | Product Description | Net Prc | Ext Prc |
|---|---|---|---|
| | ********* Shipping Instructions **** | | |
| | * **TBD** | | |
| | ********** | | |
| 1ea | FFHT2126LS FRIGIDAIRE 21CF TOP MOUNT REFRIGERATOR; ESTAR; (STAINLESS) RIGHT HAND HINGE | | |
| | Serial#_____ | | |
| | >>CONFIRM DOOR HINGE<< | | |
| 1ea | IM115 FRIGIDAIRE ICE MAKER* | | |
| 1ea | SVC- INSTALL ICE MAKER KIT PRIOR TO DELIVERY: | | |
| 1ea | FFGF3053LS FRIGIDAIRE 30" GAS RANGE; (STAINLESS)* | | |
| | *SPECIAL ORDER ITEM - NO RETURNS* | | |
| | Serial#_____ | | |
| 1ea | FFMV162LS FRIGIDAIRE OTR MICROWAVE; (STAINLESS)* | | |
| | Serial#_____ | | |
| 1ea | FGHD2433KF FRIGIDAIRE GALLERY BUILT IN DISHWASHER; ESTAR; (STAINLESS)* | | |
| | *SPECIAL ORDER ITEM - NO RETURNS* | | |
| | Serial#_____ | | |
| 1ea | MIEDWC6 6' DISHWASHER/DISPOSAL CORD STRAIGHT CAP; | | |
| 1ea | SVC- INSTALL POWER CORD PRIOR TO DELIVERY: | | |
| 1ea | FAFW3801LW FRIGIDAIRE 3.8CF AFFINITY FRONT LOAD WASHER; (WHITE) | | |
| | *SPECIAL ORDER ITEM - NO RETURNS* | | |
| | Serial#_____ | | |

*** Continued on Next Page ***

** ACKNOWLEDGEMENT **

Order #: S1276812
P/O # : 662 COTTAGE AVE E
Printed: 09:51:01 26 JAN 2012
Page # : 2 of 2
Order Phone: 651-266-6581
Cust. Phone: 651-266-6581

Sold To:
CITY OF ST. PAUL
DEPT PLANNING ECONOMIC / HRA
25 WEST 4TH STREET, SUITE 1100
SAINT PAUL, MN 55102
** C.O.D. ** C.O.D. ** C.O.D. **

Ship To:
CITY OF ST. PAUL
DEPT PLANNING ECONOMIC / HRA
662 COTTAGE AVE E
ST. PAUL, MN 55130

| Ordered by | Order Date | Ship Date | Ship Via | Warehouse |
|---|---|---|---|---|
| PER RAGNELLO | 01/24/12 | 12/01/12 | OT DELIVERY | Shp 1 Prc 1 |

| Writer | Salesperson | Release # | Freight Allowed |
|---|---|---|---|
| Edmund Rustin | Ross Agnello | 662 COTTAGE AVE E | No |

| Ordered | Product Description |
|---|---|
| 1ea | FAQG7001LW FRIGIDAIRE AFFINITY FRONT LOAD GAS DRYER; (WHITE) *SPECIAL ORDER ITEM - NO RETURNS* Serial#_____ |
| 4ea | SVC- UNCRATE AND SET: (free standing product only / built-ins left in carton) |
| 2ea | SVC- DROP DELIVERY: (no uncrate and set - drop only) |
| 1ea | SVC- INSTALL ANTI-TIPS: |
| 1ea | LABOR CHARGE / TAXABLE |
| -1ea | DISCOUNT: |

SUBTOTAL
SALES TAX

Total Amount

.. Reprint .. Reprint .. Reprint .. Reprint ..

Lumber • Building Materials
**Lamperts**

# Yard Delivery Order

9220 Hudson Blvd.
Lake Elmo MN 55042
Phone: 651-739-5400 Fax: 651-739-0267

*KEEP RECEIPTS FOR*
*RETURNS/EXCHANGES*

**Invoice #:**
**Invoice Date:** 01/26/2012

**Customer Master Account #:** 5154158
**Customer Job Account #:** 5154160

**Sold To:** CITY OF ST PAUL
PLANNING & ECON DEVELOP

St Paul, MN 55102

**Ship To:** CITY OF ST PAUL
662 COTTAGE AVE. EAST
ROOFING
St Paul, MN 55102

| Store No. | Order Ref | Order Date | Customer PO | Sales Rep | Payment Terms | Invoice Type |
|---|---|---|---|---|---|---|
| 11 | 11257837 | | | 207 | STATEMENT DATE | YARD/DEL ORDER |

| Item No. | Qty Ordered | Qty Shipped | B/O | U/M | Description | Unit Price | Total |
|---|---|---|---|---|---|---|---|
| | | | | | 662 COTTAGE AVE. EAST | | |
| | | | | | ROOFING FOR HOUSE & NEW GARAGE. | | |
| | | | | | . | | |
| 07440070 | 75 | 75 | | BDL | GAF TIMBERLN HI-DF WEATHERD WD | | |
| | | | | | (25 SQR TOTAL) | | |
| 07410070 | 8 | 8 | | BDL | GAF/ELK TIMBERTEX 20' WEATHR WD | | |
| 07110250 | 7 | 7 | | EACH | GENERIC ICE&WATER GRAN 2SQ 3'X66 | | |
| 07100040 | 7 | 7 | | ROLL | FELT NO.15-36IN ASPHALT 4SQ | | |
| | | | | | Total Ship Units: 6994.000 LB | | |



| Filled By | Checked By | Shipped By | |
|---|---|---|---|
| | | | Ship Via: |

**AUTH:**

**OT:** ALEX BOETTCHER

Customer Signature: _____

Date: _____ / _____ / _____

11257837

CUSTOMER COPY

Lumber · Building Materials
**Lamperts**

# Yard Delivery Order

9220 Hudson Blvd.
Lake Elmo MN 55042
Phone: 651-739-5400 Fax: 651-739-0267

*KEEP RECEIPTS FOR*
*RETURNS/EXCHANGES*

**Invoice #:**
**Invoice Date:** 01/27/2012

**Customer Master Account #:** 5154158
**Customer Job Account #:** 5154160

**Sold To:** CITY OF ST PAUL
PLANNING & ECON DEVELOP

St Paul, MN 55102

**Ship To:** CITY OF ST PAUL
662 COTTAGE AVE.
SIDING
St Paul, MN 55102

| Store No. | Order Ref | Order Date | Customer PO | Sales Rep | Payment Terms | Invoice Type |
|---|---|---|---|---|---|---|
| 11 | 11257908 | | | 207 | STATEMENT DATE | YARD/DEL ORDER |

| Item No. | Qty Ordered | Qty Shipped | B/O | U/M | Description | Unit Price | Total |
|---|---|---|---|---|---|---|---|
| | | | | | 662 COTTAGE AVE. | | |
| | | | | | SIDING FOR HOUSE & NEW GARAGE. | | |
| 06450015 | 634 | 634 | | EACH | HARDI SDG 5/16X7-1/4X12 CDRMI (38 SQR TOTAL) | | |
| 27558040 | 5 | 5 | | ROLL | HOUSEWRAP 9'X100' TYVEK | | |

Orde

| Filled By | Checked By | Shipped By | |
|---|---|---|---|
| | | | Ship Via: |

**AUTH:**

**OT:** ALEX BOETTCHER

Customer Signature: _____

Date: ____ / ____ / ____

11257908

CUSTOMER COPY

Neighborhood Energy Connection

Residential Energy Specification

Customer: City of Saint Paul

Auditor:Terry Cagle-Kemp

Address: 662 Cottage Ave E

Phone:651-221-4462 x122

| Spec ID# | Spec Title | Specification | Location / Notes |
|---|---|---|---|
| 204 | Replace Boiler with 90% AFUE Hot Water Boiler & Sidearm water heater | Replace existing boiler with a gas fired, modulating, direct vent, 90% AFUE+ hot water boiler. Installation to include all power & control wiring, a setback thermostat, expansion tank, one circulation pump, water & gas supply & flue piping. The installation is required to maintain a minimum 70 F indoor temperature evenly throughout the conditioned space when outdoor temperature is - 10 F. Install an indirect fired 40 gallon water tank as a separate zone on their boiler with a maximum heat loss rating of 1 degree per hour. Remove existing boiler, recycle all metal components and dispose of all other materials in a code legal dump. | **This is a duplex. Optimally, you want each unit with its boiler. Currently has one boiler and two water heaters** |
| 510 | Blow Open Attic to R-50 | All bypasses shall be sealed before insulating in such a manner that the movement of air through the bypass is essentially stopped. "Essentially stopped" means that air leakage will not be detected by an infrared scan when the house is pressurized to 30 Pascals. Blow insulation to depth indicated on manufacturer's coverage chart, consistently and evenly to R-50. Insulation in the peak attic must be marked with a ruler to measure depth and a sign with the number of bags used and the date of the installation. | |

| | | | |
|---|---|---|---|
| 512 | Dense Pack Slants to capacity with cellulose | Determine cavities are free of hazards and can support dense packing pressures, locate drilling hazards, control dust when drilling from interior. Blow Slant walls with cellulose to capacity using the Dense Pack Method to a minimum density 3.5 lbs./ft³. | |
| 524 | Insulate Flat Roof | All bypasses shall be sealed before insulating in such a manner that the movement of air through the bypass is essentially stopped. "Essentially stopped" means that air leakage will not be detected by an infrared scan when the house is pressurized to 30 Pascals. Insulate to R-50. If there is not enough room, insulate to capacity. | |
| 800 | Air Seal Rim Joist | Seal cracks and holes in rim joist using caulk, foam or other air tight materials. | |
| 912 | Insulate crawl space walls | Install poly on the ground. Crawl space walls shall be insulated by installing 6" (R19) encapsulated fiberglass batts attached permanently and directly against rim joist, band joist and exterior walls extending one foot onto poly ground covering. Alternatively, use spray foam on rim joist, band joist and walls to R-19. | **Currently, no access. May be accessible from what appears to be an old window that is boarded over** |
| 1000 | Install ENERGY STAR Rated Kitchen Fan | Install an ENERGY STAR rated exhaust fan connected with insulated rigid ductwork into a dampered vent. | |
| 1010 | Install ENERGY STAR Rated 2-stage Bathroom Fan | Install an ENERGY STAR rated two-speed bathroom fan .8 sones or less, with a pre-set low-speed of 10-30 CFM and a high-speed boost capability of 70-110 CFM initiated by a wall switch or motion detector. Vent bathroom fan using rigid duct and insulated with fiberglass and vented out with dampered roof | |

| | | | |
|---|---|---|---|
| | | vent. | |
| 1200 | Replace incandescents with CFLs | Replace incandescent bulbs with ENERGY STAR rated compact fluorescent lights. Install fixtures that meet the lighting needs of the particular area. | |
| 1210 | Install ENERGY STAR Rated Washing Machine | Connect new ENERGY STAR rated clothes washer sized appropriately for the household. Use braided steel water supply lines and a smooth rubber drain line connected to a 2 inch drain with trap. Remove existing washer, recycle all metal components and dispose of all other materials in a code legal dump. | |
| 1212 | Install ENERGY STAR Rated Dishwasher | Install ENERGY STAR rated dishwasher including all alterations and connections to plumbing and electric system. Remove existing dishwasher, recycle all metal components and dispose of all other materials in a code legal dump. | |
| 1214 | Install ENERGY STAR Rated Refrigerator | Install ENERGY STAR rated refrigerator sized appropriately for the household. Remove existing refrigerator, recycle all metal components and dispose of all other materials in a code legal dump. | |
| 1216 | Install ENERGY STAR Rated Air Conditioners | If installing window or wall sleeve air conditioners, use only ENERGY STAR rated air conditioners. Size the air conditioners appropriately for the room. | |

# Home Energy Rating Certificate

662 Cottage Ave E

St Paul, MN 55106

**3 Stars**
**as is**

**Uniform Energy Rating System** — **Energy Efficient**

| 1 Star | 1 Star Plus | 2 Stars | 2 Stars Plus | 3 Stars | 3 Stars Plus | 4 Stars | 4 Stars Plus | 5 Stars | 5 Stars Plus |
|---|---|---|---|---|---|---|---|---|---|
| 500-401 | 400-301 | 300-251 | 250-201 | 200-151 | 150-101 | 100-91 | 90-86 | 85-71 | 70 or Less |

**HERS Index:** **187**



## General Information

| | | | |
|---|---|---|---|
| Conditioned Area: | 2919 sq. ft. | HouseType: | Single-family detached |
| Conditioned Volume: | 22595 cubic ft. | Foundation: | More than one type |
| Bedrooms: | 4 | | |

## Mechanical Systems Features

| | |
|---|---|
| Heating: | Fuel-fired hydronic distribution, Natural gas, 60.0 AFUE. |
| Water Heating: | Conventional, Natural gas, 0.57 EF, 40.0 Gal. |
| Water Heating: | Conventional, Natural gas, 0.57 EF, 40.0 Gal. |
| Duct Leakage to Outside: | NA |
| Ventilation System: | None |
| Programmable Thermostat: | Heating: No Cooling: No |

## Building Shell Features

| | | | |
|---|---|---|---|
| Ceiling Flat: | R-26, R-0, R-8 | Exposed Floor: | R-0 |
| Vaulted Ceiling: | R-11 | Window Type: | Double - Vinyl |
| Above Grade Walls: | R-11 | **Infiltration:** | |
| Foundation Walls: | R-0.0 | Rate: | Htg: 6721 Clg: 6721 CFM50 |
| Slab: | R-0.0 Edge, R-0.0 Under | Method: | Blower door test |

## Lights and Appliance Features

| | | | |
|---|---|---|---|
| Percent Interior Lighting: | 10.00 | Range/Oven Fuel: | Natural gas |
| Percent Garage Lighting: | 0.00 | Clothes Dryer Fuel: | Natural gas |
| Refrigerator (kWh/yr): | 691.00 | Clothes Dryer EF: | 3.01 |
| Dishwasher Energy Factor: | 0.46 | Ceiling Fan (cfm/Watt): | 0.00 |

The Home Energy Rating Standard Disclosure for this home is available from the rating provider.

**REM/Rate - Residential Energy Analysis and Rating Software v12.99**

This information does not constitute any warranty of energy cost or savings.



**Registry ID:**
**Rating Number:** **526-1273**
Certified Energy Rater: Terry Cagle-Kemp
Rating Date: 5/22/2012
Rating Ordered For: City of St Paul

**Estimated Annual Energy Cost**

as is

| Use | MMBtu | Cost | Percent |
|---|---|---|---|
| Heating | 346.0 | $3117 | 71% |
| Cooling | 0 | $0 | 0% |
| Hot Water | 39.2 | $353 | 8% |
| Lights/Appliances | 32.7 | $748 | 17% |
| Photovoltaics | -0.0 | $-0 | -0% |
| Service Charges | | $180 | 4% |
| **Total** | | **$4398** | **100%** |

**This home meets or exceeds the minimum criteria for all of the following:**

**TITLE**
**Company**
Address
City, State, Zip
Phone #
Fax #

# Home Energy Rating Certificate

662 Cottage Ave E

St Paul, MN 55106

**5 Stars**
**Projected Rating**

**Uniform Energy Rating System** — **Energy Efficient**

| 1 Star | 1 Star Plus | 2 Stars | 2 Stars Plus | 3 Stars | 3 Stars Plus | 4 Stars | 4 Stars Plus | 5 Stars | 5 Stars Plus |
|---|---|---|---|---|---|---|---|---|---|
| 500-401 | 400-301 | 300-251 | 250-201 | 200-151 | 150-101 | 100-91 | 90-86 | 85-71 | 70 or Less |

**HERS Index:** **78**



## General Information

| | | | |
|---|---|---|---|
| Conditioned Area: | 2919 sq. ft. | HouseType: | Single-family detached |
| Conditioned Volume: | 22595 cubic ft. | Foundation: | More than one type |
| Bedrooms: | 4 | | |

## Mechanical Systems Features

Integrated Htg/DHW: Natural gas, Htg eff 0.90 CAafue. DHW eff 0.85 CAef.

Duct Leakage to Outside: NA

Ventilation System: Exhaust Only: 67 cfm, 13.0 watts.

Programmable Thermostat: Heating: No Cooling: No

## Building Shell Features

| | | | |
|---|---|---|---|
| Ceiling Flat: | R-50 | Exposed Floor: | NA |
| Vaulted Ceiling: | R-11, R-15 | Window Type: | NFRC .34 / .30 |
| Above Grade Walls: | R-11 | **Infiltration:** | |
| Foundation Walls: | R-0.0, R-10.0 | Rate: | Htg: 2800 Clg: 2800 CFM50 |
| Slab: | R-0.0 Edge, R-0.0 Under | Method: | Blower door test |

## Lights and Appliance Features

| | | | |
|---|---|---|---|
| Percent Interior Lighting: | 10.00 | Range/Oven Fuel: | Natural gas |
| Percent Garage Lighting: | 0.00 | Clothes Dryer Fuel: | Natural gas |
| Refrigerator (kWh/yr): | 691.00 | Clothes Dryer EF: | 3.01 |
| Dishwasher Energy Factor: | 0.46 | Ceiling Fan (cfm/Watt): | 0.00 |

The Home Energy Rating Standard Disclosure for this home is available from the rating provider.

**REM/Rate - Residential Energy Analysis and Rating Software v12.99**

This information does not constitute any warranty of energy cost or savings.



**Registry ID:**
**Rating Number:** **526-1273**
Certified Energy Rater: Terry Cagle-Kemp
Rating Date: 5/22/2012
Rating Ordered For: City of St Paul

**Estimated Annual Energy Cost**
Projected Rating

| Use | MMBtu | Cost | Percent |
|---|---|---|---|
| Heating | 137.8 | $1238 | 53% |
| Cooling | 0 | $0 | 0% |
| Hot Water | 17.5 | $158 | 7% |
| Lights/Appliances | 33.1 | $759 | 33% |
| Photovoltaics | -0.0 | $-0 | -0% |
| Service Charges | | $180 | 8% |
| **Total** | | **$2334** | **100%** |

**This home meets or exceeds the minimum criteria for all of the following:**

**TITLE**
**Company**
Address
City, State, Zip
Phone #
Fax #

DEPARTMENT OF SAFETY AND INSPECTIONS
*Ricardo X. Cervantes, Director*

CITY OF SAINT PAUL
*Christopher B. Coleman, Mayor*

*375 Jackson Street, Suite 220*
*Saint Paul, Minnesota 55101-1806*

*Telephone: 651-266-8989*
*Facsimile: 651-266-9124*
*Web: www.stpaul.gov/dsi*

# Code Compliance Report

May 14, 2012

Housing and Redevelopment
25 W 4th St Ste 1300
St Paul MN 55102

*** * This Report must be Posted on the Job Site * ***

Re: 662 Cottage Ave E
File#: 09 268703 VB2

## ** This is a Building Only Code Compliance Report **

**BUILDING Inspector: Jim Seeger Phone: 651-266-9046**

- Dry out basement and eliminate source of moisture.
- Remove mold, mildew and moldy or water damaged materials.
- Install handrails (34 inches - 38 inches above each nosing) and guardrails (36 inch minimum) at all stairways, and return hand rail ends into a newel post or wall per attachment.
- Repair or Replace any deteriorated window sash, broken glass, sash holders, re-putty, etc as necessary.
- Provide complete storms and screens, in good repair for all door and window openings.
- Provide functional hardware at all doors and windows
- Exit doors shall be capable of being opened from the inside, easily and without the use of a key. Remove all surface bolts.
- Repair or replace damaged doors and frames as necessary, including storm doors.
- Install floor covering in bathroom and kitchen that is impervious to water.
- Repair walls, ceiling and floors throughout, as necessary.
- Prepare and paint interior and exterior as necessary. Observe necessary abatement procedures (EPA, MPCA and St. Paul Legislative Code, Chapter 34 for additional information) if lead base paint is present.
- Provide fire block construction as necessary and seal chases in basement ceiling.
- Install Smoke Detectors/Carbon Monoxide Detectors per MN Conservation Code and the MN Dept. of Labor and Industry: Install per code where feasible.
- Provide major clean-up of premises.
- Repair siding, soffit, fascia, trim, etc. as necessary.
- Provide proper drainage around house to direct water away from foundation of house.
- Provide proper drainage around house to direct water away from foundation of garage.
- Install downspouts and a complete gutter system.
- Install rain leaders to direct drainage away from foundation.
- Replace garage roof covering and vents to code.

**BUILDING Inspector: Jim Seeger Phone: 651-266-9046**

- Install flashing in an approved manner at the intersection of the roof with walls, chimneys, and other conjoined surfaces.
- Install address numbers visible from street and on the alley side of garage.
- Review all applicable codes & policies when replacing windows including egress windows for sleeping rooms.
- Openings in stair risers must be less than 4 inches.
- Grade must drain away from foundation of dwelling. Maintain 6 inch clearance between wood and soil.
- Totally rebuild garage to code and replace all decayed framing and remove wood floor.
- Insure all framing is span rated to code and 6 inches clearance from siding to grade.
- Install 1 hour fire rated assembly at west wall of garage.
- Remove or replace southwest corner porch to code with proper footings.
- Install tempered glass in window at top of basement stairs.
- Install vapor barrier in crawl space.
- Recommend replace roof covering in near future.
- A building permit is required to correct the above deficiencies.

**ZONING**

1. This property is in a(n) R4 zoning district.
2. This property was inspected as a Single Family Dwelling.

**Notes:**

- See attachment for permit requirements and appeals procedure.

**This is a registered vacant building. In order to sell or reoccupy this building, all deficiencies listed on this code compliance report must be corrected in accordance with the Minimum Housing Standards of the St. Paul Legislative Code (Chapter 34) and all required permits must receive final approval within six (6) months of the date of this report. One (1) six-month time extension may be requested by the owner and will be considered if it can be shown that the code compliance work is proceeding and is more than fifty (50) percent complete in accordance with Legislative Code Section 33.03(f).**

You may file an appeal to this notice by contacting the City Clerk's Office at 651-266-8688. Any appeal must be made in writing within 10 days of this notice. (You must submit a copy of this notice when you appeal, and pay a filing fee.) If you have any questions regarding this inspection report, please contact Jim Seeger between 7:30 - 9:00 AM at 651-266-9046 or leave a voice mail message.

Sincerely,

James L. Seeger, Code Compliance Officer
Phone: 651-266-9046 Email: james.seeger@ci.stpaul.mn.us
JLS:ml Attachments

**09/10/12 ACTIVATED CHARCOAL RADON TEST #6091730**

**Radon Test Result: 2.9 ±0.3 pCi/L**

**Test Started 09/04/12 at 12:00 pm**
**Test Ended 09/07/12 at 4:00 pm**
**Closed house conditions maintained during test.**

**Location Basement**

TCHU YAJH
662 COTTAGE AVE E
SAINT PAUL, MN 55106−1707

## INTERPRETING YOUR TEST RESULT

This radon test was provided to you by MN DEPT OF HEALTH/INDOOR AIR UNIT / 651−201−4601. The US EPA action level for indoor radon is 4.0 pCi/L. The EPA recommendation for results in this range (2.0 to 3.9 pCi/L) is to conduct further tests to determine the true annual average, ideally with a long−term test kit. If the result remains between 2 and 4 there is little short−term risk, but you should consider fixing your home. Additionally, if you make any structural changes or start to use a lower level of the building more frequently, you should test again.

You may be able to obtain additional information about radon related subjects by calling your **state radon officer at 800−798−9050**. Or call the "Radon Fix−It Line" at 800−644−6999 Monday thru Friday between NOON and 8 pm EST

This test result reflects the amount of radon measured in this sample AFTER it arrived at our laboratory. All analysis computations are automatically adjusted to reflect the length of test, the amount of moisture in the sample, time from the end of test, and the amount of radiation measured. If ALL the test instructions were carefully followed, then it is reasonable to assume this is an accurate assessment of the average level of the radon this sample was exposed to during the time indicated on the test packet.

## READ THIS FIRST

**This result has been rounded to one−tenth (0.1) of a pCi/L (picoCurie per liter), the most common method of reporting radon in air.**

## NEXT...PLEASE...READ

**everything under the heading**

**INTERPRETING YOUR TEST RESULT**

### Your health risk

The primary health risk from long−term exposure to radon is lung cancer. The risk of developing a lung cancer from radon exposure depends both on how much radon is present and how long you are exposed to radon. The higher the radon level or the longer the time of exposure, even if the levels are relatively low, the greater the risk. Exposures up to 4 pCi/L may present some risk of contracting lung cancer to more sensitive occupants, especially children. Recently the US Congress set as a goal the lowering of radon levels in buildings to equal the levels of outside air.

### What is a picoCurie

For those interested in the numbers, a picoCurie is 0.000,000,000,001 (one−trillionth) of a Curie, an international measurement unit of radioactivity. One pCi/L means that in one liter of air there will be 2.2 radioactive disintegrations each minute. For example, at 4 pCi/L there will be approximately 12,672 radioactive disintegrations in one liter of air, during a 24−hour period.

### Conducting Follow−up Measurements

USEPA protocol describes two general types of radon measurements: short−term tests conducted from 48 hours up to 90 days, and long−term tests that last from 90 to 365 days. Your first test (initial/screening) should be a short−term `worst−case' screening to see if there is a potential for high exposure to radon. Screening tests should be conducted under closed−building conditions, in the lowest lived−in area in the house, because the highest concentrations of radon will usually be found in a room closest to the underlying soil. Tests made under these conditions are less likely to miss a house with a potential for high concentrations. On the other hand, if the results of worst−case screening tests are very low, there is a high probability that the average annual concentrations in the house are also low.

* Your state has designated a radon officer to assist citizens with questions on radon. Most offer free information on radon and radon reduction techniques, and most keep a list of qualified radon testing and mitigation businesses. Your radon officer can also provide the phone number of your regional USEPA office.

## Conducting Follow−up Measurements

**The higher your initial (screening) tests, the sooner you should conduct follow−up measurements.** The EPA states that you should retest the same location that was tested initially. **For additional or follow−up testing,** make sure at least one test is conducted in the **lowest lived−in level** of the home. Also choose regularly used rooms, such as family rooms, dens, playrooms, or bedrooms. A bedroom on the lower level may be a good choice, because people generally spend the most time in their bedrooms (approximately one−third of the year). If there are children, it may be appropriate to test their rooms or other areas where they spend a lot of time, especially at the lower levels. All short−term follow−up tests **must** be conducted under closed−building conditions. If closed−building conditions cannot be maintained, a long−term measurement conducted under normal living conditions could be used to help estimate average annual exposures.

Tests **should not be conducted** in a kitchen or a bathroom because high humidity, exhaust fans, and other factors can adversely affect the test results. Tests **should not be conducted** in storage areas or laundry rooms, because relatively little time is spent there. Although radon in water may be a contributor to the concentration of airborne radon, radon in air should be **confirmed** before a test for radon in water is performed.

It is recommended that before spending any time or money on radon mitigation, one should conduct multiple (three or more) tests to be certain there is a need. A few more tests will most certainly cost considerably less than any mitigation work.

If follow−up measurements have **confirmed** that the average annual level of radon is equal to or greater than 4 pCi/L, the USEPA recommends that the building or home be mitigated for radon. Consider also that a future buyer is likely to demand that the building pass a radon test before purchasing.

**Variations in Radon Levels:** what can affect your test results and why it may be important to conduct confirmation tests.

When tests are performed in different seasons or under different weather conditions, the initial screening and follow−up tests may vary considerably. Radon levels can vary significantly between seasons, so different values **are to be expected**. Even during normal weather, indoor radon levels may rise and fall by a factor of two on a daily cycle; for example, from 5 pCi/L to 10 pCi/L in 24 hours. During rapidly changing or stormy weather, the levels may change more dramatically. Because continual changes in radon levels are considered the norm, expose the testing device for as long as is practical, while following the manufacturer's recommendations. This, of course, provides a better overall average of the measurement.

If you are comparing tests, or are averaging a series of tests, bear in mind that any radon test returns only the average of the levels present during a **specific period of time** at the **precise location** of the test. Conditions during a different test period or at a different location in the building are **expected to be different.**

Test results can also vary if the radon test instructions were not carefully followed. A laboratory measuring radon in samples taken outside the lab **must rely on the person conducting the test**. For example, the wrong starting or ending date of a test will significantly affect the calculated result. The location of each radon test can also influence the result. For example, a test placed in the blowing air stream of a fan is likely to collect more radon than it would under normal conditions. Also, three tests conducted in one home, but in three different rooms, **would be expected to have at least slightly different test results.**

Test results from a properly used activated charcoal test will more closely reflect the average radon concentrations over the last three to five days of the test period. This happens because the radon collected by the activated charcoal has a radioactive half−life of only four days. This means, for example, over one−half of the radon collected during the first three days of a seven day test `died' before the test ended. Seven day exposures of activated charcoal test devices are suggested because this allows the charcoal to equilibrate with its environment, averaging out the peaks and valleys that normally occur in real−life radon levels. Also the aspect of user convenience is considered, because most find it easier to remember to end a test on the same day of the week it was started.

If you have further questions regarding this test or need advice on follow−up testing, call fax or write to our technical service department listed below. Thank you for choosing the Air Chek test device.

## PERFORMING RADON TESTS FOR A REAL ESTATE TRANSACTION

**EPA** guidelines recommend that at least two short−term tests should be conducted, either together or sequentially, at the same location in the building. If the average of all the tests is below 4 pCi/L, then no further action is necessary at this time. It is **highly recommended** that any property transaction tests be conducted by a non−interested third party. To locate a listed or certified radon tester, contact your state or regional EPA radon office or visit our website at http://www.radon.com to download a list of NEHA−certified testers. Ask for or download publication number EPA 402−K−00−008 Home Buyer's and Seller's Guide to Radon.



Notice to Pennsylvania Residents: The Radon Certification Act requires that anyone who provides any radon−related service or product to the general public must be certified by the Pennsylvania Department of Environmental Protection. You are entitled to evidence of certification from any person who provides such services or products. You are also entitled to a price list for services or products offered. All radon measurement data will be sent to the Department as required in the Act and will be kept confidential. If you have any questions, comments, or complaints concerning persons who provide radon−related services, please contact the Department of Environmental Protection, P.O. Box 8469, Harrisburg, PA 17105−8469 (717−783−4594).

The radon test kit(s) used for this report is certified by the NEHA−NRPP, Lab ID: 101138, for use in all fifty states. It is also listed or certified for use in all states that have a radon program.

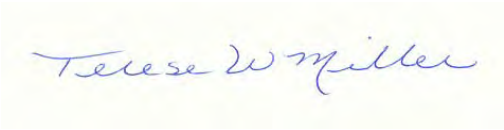
For technical information, call (828) 684−0893. Office hours are Mon−Fri 8:30 to 5:30 EASTERN
You can reach us by Fax at (828) 684−8498 or write to Air Chek, Inc., Box 2000, Naples, NC 28760
**Web Site:** http://www.radon.com **Email to:** info@radon.com

**ASBESTOS AND LEAD-BASED PAINT SURVEY**
662 Cottage Avenue East
St. Paul, Minnesota

*Prepared for:*

City of St. Paul
Department of Planning and Economic Development
1100 City Hall Annex
25 West 4th Street
St. Paul, Minnesota 55102-1623

*Submitted by:*



Terese W. Miller
Principal Consultant, CEO

St. Croix Environmental, Inc.
1094 Golden Oaks Drive
Hudson, Wisconsin 54016

January 26, 2012

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## APPENDICES

# 1. Introduction

St. Croix Environmental, Inc. (SCE) was retained by the City of St. Paul (the City) to administer a Survey of the property located at 662 Cottage Avenue East in St. Paul, Minnesota (the Site). The Site is occupied by a duplex which is scheduled for rehabilitation.

The purpose of the work was to evaluate building materials suspected to contain asbestos and lead-based paint as follows:

- Identify asbestos containing materials (ACM) at the Site as defined by the Environmental Protection Agency (EPA), Minnesota Pollution Control Agency (MPCA), and the Minnesota Department of Health (MDH).
- Identify surfaces that contain lead-based paint prior to rehabilitation in accordance with US Department of Housing and Urban Development (HUD) guidelines.

The work did not include a survey for hazardous materials other than asbestos or lead-based paint.

# 2. Asbestos Survey

On January 16, 2012, Tim Marxhausen, a Minnesota Department of Health (MDH) Certified Asbestos Inspector with Parks Environmental Consulting, Inc. completed the building survey and sampling activities.

## 2.1. ACM Sampling

A list of the suspect asbestos materials that were sampled can be found on Table 1 in **Appendix I**. Materials other than those listed, and not sampled, were either: 1) not considered suspect for asbestos content (e.g. fiberglass insulation, concrete, brick, plastic); or, 2) inaccessible, such as materials in wall cavities, confined spaces, or locked rooms/areas. If suspect asbestos containing materials other than those listed and sampled are discovered at the Site, they should be considered asbestos containing until testing proves otherwise.

The samples were analyzed for asbestos content by EPA Method 600/R-93/116, at Schneider Laboratories, Richmond, Virginia. Schneider's laboratory is accredited for asbestos bulk material analysis under the National Institute of Sciences' National Voluntary Laboratory Accreditation Program (NVLAP). The analytical method's lower detection limit is one-percent asbestos by volume. The method provides a visual estimation of asbestos in the material sample.

### 2.2. ACM Results

A copy of the analytical laboratory report is included in **Appendix I**. The sample location diagram is also included the appendix.

The following materials were found or assumed to contain asbestos:

TABLE 1 – Summary of Asbestos Containing Building Materials

| Sample Number | Description | Location | Friable | Approx. Amount |
|---|---|---|---|---|
| CM-01 | Chimney Mortar Patch | Basement – on chimney where flues enter | No | 2 SF |
| | Pipe Insulation* | Crawlspace | Yes | 20 LF |

SF= Square Feet LF = Linera Feet
*the pipe insulation is assumed asebstos based on inspector's experience (inaccessable to sample)

## 3. Lead-Based Paint Survey

On January 17, 2012, Andrew Myers, a Minnesota-licensed lead risk assessor with Midwest Environmental Consulting, LLC., performed a HUD lead-based paint inspection and risk assessment of the property. At the request of the City of Saint Paul (City), this report provides information in accordance with HUD guidelines regarding the identification of lead-based paint. The City has determined that abatement is the required method for addressing lead-based paint at this property in order to comply with HUD guidelines.

### 3.1. Lead-Based Paint Sampling

Observations for lead-based paint, conducted in accordance with HUD guidelines, include a description of condition. Based on current regulatory definitions, lead-based paint is defined as paint containing lead concentrations equal to or greater than 1.0 milligrams per square centimeter (mg/cm2) when using a Niton XL X-ray fluorescence (XRF) analyzer. The XRF provides the measured lead concentration in weight of lead per unit area.

## 3.2. Lead-Based Paint Results

Specific building components determined to have a lead concentration above the action level of 1.0 mg/cm$^2$ are listed below. Complete results of the XRF analyzer are presented in **Appendix II.**

| LOCATION | COMPONENT |
|---|---|
| Floor 1, Unit 1, Kitchen | Ceramic tile walls |
| Basement Stair, Side B | Painted wood window components |
| Basement Stair, Side B | Metal window components (depth index indicates lead beneath metal surfaces) All homogeneous basement windows should be assumed to be the same. |
| Front Stair to Floor 2 | Painted wood baseboards |
| Floor 2, Unit 2, Living Room | Metal window trough (depth index indicates lead beneath metal surfaces) |
| Floor 2, Unit 2, Bedroom 1 | Wood door |
| Floor 2, Unit 2, Bedroom 2 | Metal window trough (depth index indicates lead beneath metal surfaces) |
| Floor 2, Unit 2, Bathroom | Metal window trough (depth index indicates lead beneath metal surfaces) |
| Floor 2, Unit 2, Bathroom | Bath tub |
| Floor 2, Unit 2, Bathroom | Ceramic tile floor |
| Floor 2, Unit 2, Kitchen | Wood door |
| Porch, Floor 2 | Painted wood door & door components |
| Porch, Floor 2 | Painted wood window components |
| Porch, Floor 2, Side D | Painted wood door threshold |
| Porch, Floor 2 | Stucco walls |
| Porch, Floor 2 | Vinyl baseboards |
| Exterior | All metal window casing (depth index indicates lead beneath metal surfaces) |
| Exterior | All painted stucco walls |
| Exterior | Painted wood soffits |
| Porch | Painted stucco walls |
| Garage | Painted wood siding, soffit & trim |
| Back Stair to 2nd Floor | Painted wood baseboards, skirt & stringer |
| Back Stair to 2nd Floor | Painted drywall walls |

## 4. Definitions

The following definitions apply to this report:

- The EPA/MPCA/MDH defines ACM as any material that contains greater than one percent asbestos by volume. Materials found to contain one percent or less asbestos by volume are not regulated as ACM by EPA/MPCA/MDH.
- Friable ACM is defined as any material that contains greater than one percent asbestos, and which can be crumbled, pulverized, or reduced to powder by hand pressure.
- Category I non-friable ACM means asbestos-containing packings, gaskets, resilient floor covering, and asphalt roofing products containing more than one percent asbestos. Category I non-friable ACM is not allowed to remain in place during renovation/rehabilitation if it is in a condition where the renovation/rehabilitation activities might cause it to become friable.
- Category II non-friable ACM means any material, excluding Category I non-friable ACM, containing more than one percent asbestos that, when dry, cannot be crumbled, pulverized, or reduced to a powder by hand pressure. Category II nonfriable ACM is not allowed to remain in place during renovation or rehabilitation if it has a high probability of becoming crumbled, pulverized, or reduced to a powder during renovation, rehabilitation, transport, or disposal.

## 5. Inspection and Sampling Limitations

This survey report is intended to describe lead-based paint and ACM that may be present at the subject site, including those that may be impacted during renovation or rehabilitation activities. Services performed by the consultant were conducted in accordance with generally recognized industry standards and current MPCA and MDH guidelines, and in a manner consistent with the level of care and skill ordinarily exercised by other professional consultants under similar circumstances and under similar budget and time constraints. No other warranty is made or intended.

The survey is not intended to be technically exhaustive and no representation is made to the client, expressed or implied, and no warranty or guarantee is included or intended. It is possible that some materials were not identified during the course of the inspection at this site. Such unidentified materials would be those that are hidden from view, such as floor tile under floor tile or carpet, pipe insulation in wall cavities, materials out of reach in high ceiling areas, materials located under or behind finish materials, or materials inadvertently overlooked. Building materials known to possibly contain asbestos or lead-based paint which were not sampled as part of this survey should be assumed to be asbestos or lead containing until proven otherwise.

The consultant and/or inspector for this survey are not held responsible or liable for any repairs or replacements with regards to this property, systems, components, or the contents therein. Material samples were analyzed by an independent outside laboratory; the results of their analyses are presented herein. While we choose an established, reputable and certified lab to perform the sample analysis, SCE does not warrant the accuracy of the laboratory results.

The information contained in this report represents the consultant's best efforts to determine the presence of lead-based paint and ACM at the site given the site conditions. No inspection was carried out of flues, chutes, ducts, voids and any similar enclosed areas, the access to which would necessitate the use of specialist equipment or tools, or which would have caused damage to decoration, fixtures, fittings or the structure of the building. We are therefore unable to report on the presence of asbestos or lead in these areas, and accept no responsibility for the presence of such.

# ASBESTOS MATERIALS SURVEY REPORT

**DUPLEX**

**662 COTTAGE AVENUE**
**ST. PAUL, MINNESOTA**

***Prepared for:***

**St. Croix Environmental**
**1094 Golden Oaks Drive**
**Hudson, Wisconsin**

***Prepared by:***

**Parks Environmental Consulting, Inc.**
**4749 Chicago Avenue S.**
**Minneapolis, Minnesota**
**(612) 353-6528**

**Parks Project # 9360**

**January 26, 2012**

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## LIST OF APPENDICES

## 1.0 Executive Summary

St. Croix Environmental, Inc. (SCE) contracted with Parks Environmental Consulting, Inc. (Parks) to conduct an inspection and sampling for asbestos-containing materials (ACM) in the vacant duplex located at 662 Cottage Avenue, St. Paul, Minnesota.

Mr. Tim Marxhausen of Parks conducted the asbestos materials inspection, audit and sampling at the site January 16, 2012. Accessible interior and exterior building materials were surveyed, suspect asbestos materials were sampled in general accordance with EPA-AHERA sampling rules, samples were analyzed for asbestos content, and this report was then prepared.

**Asbestos Materials**

**The following materials were found or assumed to contain asbestos:**

**TABLE 1 – Summary of Asbestos Containing Building Materials**

| Sample Number | Description | Location | Friable | Approx. Amount |
|---|---|---|---|---|
| CM-01 | Chimney Mortar Patch | Basement – on chimney where flues enter | No | 2 SF |
| | Pipe Insulation* | Crawlspace | Yes | 20 LF |

SF= Square Feet LF = Linera Feet
*the pipe insulation is assumed asebstos based on inspector's experience (inaccessable to sample)

Approximately 16 types of suspect asbestos materials were sampled and tested. Of these materials, only the above listed materials were found or assumed to contain asbestos.

Details of the site inspection and sampling are provided in the following sections. A table listing each sampled suspect asbestos homogeneous material, its location and analytical result is located in Section 4.0 of this report, as is a table special waste materials. The laboratory reports are included in Appendix A.

## 2.0 Background

SCE requested that Parks assist with the evaluation of building materials suspected to contain asbestos in the vacant duplex located at 662 Cottage Avenue, St. Paul, Minnesota. Parks inspected the building for suspect asbestos materials, sampled such materials, facilitated sample analysis by an outside laboratory, compiled the data, and prepared this report.

On January 16, 2012, Tim Marxhausen, Minnesota Department of Health (MDH) Certified Asbestos Inspector #AS-2271, inspected the building for suspect ACM. Parks collected 35 building material samples for asbestos analysis. The samples were analyzed at Schneider Laboratories in Richmond, Virginia.

**Asbestos Material Sampling**

The following types of building materials were considered, for the purposes of this survey, suspect ACM, and thus sampled:

- 12" Vinyl Floor Tile and Adhesive (five types)
- Linoleum
- Acoustical Ceiling Texture (two types)
- Chimney Mortar Patch
- Sheetrock and Joint Compound
- Flooring Paper Slip-Sheet
- Sink Undercoat
- Window Glazing/Putty

A Site Sketch indicating sample locations is provided in Appendix B.

## 3.0 Methods

Material samples were analyzed for asbestos content by Polarized Light Microscopy, EPA Method 600/R-93/116, at Schneider Laboratories, Richmond, Virginia. Schneider's laboratory is accredited for asbestos bulk material analysis under the National Institute of Sciences' National Voluntary Laboratory Accreditation Program (NVLAP). The analytical method's lower detection limit is one-percent asbestos by volume. The method provides a visual estimation of asbestos in the material sample.

## 4.0 Data and Findings Summary

The following table summarizes sampled suspect asbestos materials with their locations, and analytical results. Materials other than those listed here, and not sampled, were either: 1) not considered suspect for asbestos content (e.g. fiberglass insulation, concrete, brick, plastic); or, 2) inaccessible, such as materials in wall cavities, under finish materials, in confined spaces or locked rooms/areas. If suspect asbestos containing materials other than those listed and sampled below are discovered at the site, they should be considered asbestos containing until testing proves otherwise.

**TABLE 2 – Identified and Sampled Suspect ACM**

| Sample Number | Material Description | Location | Results |
|---|---|---|---|
| CM-01 | Chimney Mortar Patch - gray | Basement – on chimney where flues enter | **Asbestos** 35% Chy |

| TABLE 2 – Identified and Sampled Suspect ACM | | | |
|---|---|---|---|
| **Sample Number** | **Material Description** | **Location** | **Results** |
| CTEX-01A, B, C | Spray-applied Acoustical Ceiling Texture | Upper Unit – all rooms except kitchen and bath | Non-Asbestos |
| CTEX-02A, B, C | Spray-applied Acoustical Ceiling Texture | Lower Unit – throughout | Non-Asbestos |
| FT-01A, B | 12” Vinyl Floor Tile – wood grain finish | Upper Unit – Kitchen | Non-Asbestos |
| FT-02A, B, C | 12” Vinyl Floor Tile - wood grain with clear Adhesive | Lower Unit – Living and Dining Rooms | Non-Asbestos |
| FT-03A, B | 12” Vinyl Floor Tile – brown diamond stones pattern with yellow adhesive | Lower Unit – Kitchen | Non-Asbestos |
| FT-04A, B | 12” Vinyl Floor Tile - gray/tan marble pattern | Lower Unit – Northwest Room | Non-Asbestos |
| FT-05A, B | 12” Vinyl Floor Tile – brown/tan marble pattern with clear Adhesive | Lower Unit – Northeast Room | Non-Asbestos |
| LIN-01A, B | Linoleum – light blue 9” squares pattern | | Non-Asbestos |
| | Pipe Insulation (gray paper) | Crawlspace under south portion of structure | **Assumed Asbestos** |
| SRJC-01A, B, C | Sheetrock and Joint Compound | Upper Level - Throughout | Non-Asbestos |
| SRJC-02A, B, C | Sheetrock and Joint Compound (some textured) | Lower Level - Throughout | Non-Asbestos |
| SS-01 | Flooring Slip Sheet Paper - tan | Upper Unit – Kitchen (under plywood underlayment) | Non-Asbestos |
| SU-01 | Sink Undercoat – black | Upper Unit – Bathroom and Kitchen sinks | Non-Asbestos |
| WG-01A, B, C | Window Glazing/Putty | Upper Level - Windows | Non-Asbestos |
| WG-02A, B, C | Window Glazing/Putty | Lower Level - Windows | Non-Asbestos |

Chy = Chrysotile Asbestos

## 5.0 Recommendations

Prior to renovation or demolition, an asbestos abatement contractor should properly remove the asbestos chimney mortar and pipe insulation if they will be affected by

construction activity. These materials may present a hazard to persons during construction and cannot be disposed in a general construction debris landfill.

The above are general and limited asbestos recommendations. MDH, (EPA), and Occupational Safety and Health Administration (OSHA) rules and guidelines for asbestos should be referenced prior to disturbance of asbestos materials.

## 6.0 Inspection and Sampling Limitations

It is possible that some suspect asbestos, or asbestos containing, materials and hazardous materials were not identified during the course of the inspection at this site. Such unidentified materials would be those that are hidden from view, such as floor tile under floor tile or carpet, pipe or duct insulation in wall cavities, materials out of reach in high ceiling areas, materials located under or behind finish materials. Building materials known to possibly contain asbestos which were not sampled as part of this survey should be assumed to be asbestos containing until proven otherwise.

This document is an initial pre-renovation asbestos survey based on one site visit that included sampling of select materials. This inspection and sampling occurred in January; the house had no heat, electricity or water service. It is not an asbestos or hazardous material abatement scope of work. This document, associated drawing, lab report and attachments are not intended to be environmental bid specifications for the referenced site.

Material samples were analyzed by an independent outside laboratory; the results of their analyses are presented herein. While we choose an established, reputable and certified lab to perform the sample analysis, Parks does not warrant the accuracy of the laboratory results.

The information contained in this report represents Parks' best efforts to determine the presence of asbestos containing and other hazardous materials at the site given the site conditions. A copy of the MDH asbestos inspector's certification card is in Appendix D.

**Parks Environmental Consulting, Inc.**

January 26, 2012

Tim Marxhausen
Project Manager
MDH Certified Asbestos Inspector #AI2271

Date

# APPENDIX A

## ASBESTOS LABORATORY REPORT

# SCHNEIDER LABORATORIES GLOBAL

INCORPORATED
2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • (FAX) 804-359-1475
***Over 25 Years of Excellence in Service and Technology***
**AIHA/ELLAP 100527, ISO/IEC 17025, NVLAP 101150-0, VELAP 460135, NYELAP/NELAC 11413**

## LABORATORY ANALYSIS REPORT

Asbestos Identification by EPA Method[1] 600/R-93/116
Using SLI A6

**ACCOUNT #:** 3556-12-41
**CLIENT:** St. Croix Environmental, Inc.
**ADDRESS:** 1094 Golden Oaks Drive
Hudson, WI 54016
**PROJECT NAME:** House
**JOB LOCATION:** 662 Cottage Ave
**PROJECT NO.:**
**PO NO.:**

**DATE COLLECTED:** 1/16/2012
**DATE RECEIVED:** 1/17/2012
**DATE ANALYZED:** 1/17/2012
**DATE REPORTED:** 1/18/2012

**SampleType:** BULK

| Client Sample No. | SLI Sample/ Layer ID | Sample Identification/ Layer Name | PLM Analysis Results: Asbestos Fibers | PLM Analysis Results: Other Materials |
|---|---|---|---|---|
| CM-01 | 31321023 | | | |
| Layer 1: | | Ceiling Material<br>Gray, Granular/Fibrous | 35% CHRYSOTILE | 65% NON FIBROUS MATERIAL |
| CTEX-01A | 31321024 | | | |
| Layer 1: | | Ceiling Texture<br>White, Granular | None Detected | 100% NON FIBROUS MATERIAL |
| CTEX-01B | 31321025 | | | |
| Layer 1: | | Ceiling Texture<br>White, Granular | None Detected | 100% NON FIBROUS MATERIAL |
| CTEX-01C | 31321026 | | | |
| Layer 1: | | Ceiling Texture<br>White, Granular | None Detected | 100% NON FIBROUS MATERIAL |
| CTEX-02A | 31321028 | | | |
| Layer 1: | | Ceiling Texture<br>White, Granular | None Detected | 100% NON FIBROUS MATERIAL |

**Total Number of Pages in Report: 5**

Results relate only to samples as received by the laboratory. Visit www.slabinc.com for current certifications.

*Samples analyzed by the EPA Test Method are subject to the limitations of light microscopy including matrix interference. Gravimetric reduction and correlative analyses are recommended for all non-friable, organically bound materials. This method has a reporting limit of 1% or greater. Visual estimation contains an inherent range of uncertainty. This report must not be reproduced except in full with the approval of the lab, and must not be used to claim NVLAP or other gov't agency endorsement.*

| Client Sample No. | SLI Sample/ Layer ID | Sample Identification/ Layer Name | PLM Analysis Results: Asbestos Fibers | PLM Analysis Results: Other Materials |
|---|---|---|---|---|
| CTEX-02B | 31321029 | | | |
| Layer 1: | | Ceiling Texture<br>White, Granular | None Detected | 100% NON FIBROUS MATERIAL |
| CTEX-02C | 31321030 | | | |
| Layer 1: | | Ceiling Texture<br>White, Granular | None Detected | 100% NON FIBROUS MATERIAL |
| FT-01A | 31321031 | | | |
| Layer 1: | | Floor Tile<br>fttan, Organically Bound | None Detected | 100% NON FIBROUS MATERIAL |
| Layer 2: | | Mastic<br>Clear, Soft | None Detected | 100% NON FIBROUS MATERIAL |
| FT-01B | 31321032 | | | |
| Layer 1: | | Floor Tile<br>Tan, Organically Bound | None Detected | 100% NON FIBROUS MATERIAL |
| Layer 2: | | Mastic<br>Clear, Soft | None Detected | 100% NON FIBROUS MATERIAL |
| FT-02A | 31321033 | | | |
| Layer 1: | | Floor Tile<br>Tan, Rubbery | None Detected | 100% NON FIBROUS MATERIAL |
| Layer 2: | | Mastic<br>Clear, Soft | None Detected | 100% NON FIBROUS MATERIAL |
| FT-02B | 31321034 | | | |
| Layer 1: | | Floor Tile<br>Tan, Rubbery | None Detected | 100% NON FIBROUS MATERIAL |
| Layer 2: | | Mastic<br>Clear, Soft | None Detected | 100% NON FIBROUS MATERIAL |

**Total Number of Pages in Report: 5**

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| Client Sample No. | SLI Sample/ Layer ID | Sample Identification/ Layer Name | PLM Analysis Results: Asbestos Fibers | PLM Analysis Results: Other Materials |
|---|---|---|---|---|
| FT-02C | 31321035 | | | |
| Layer 1: | | Floor Tile<br>Tan, Rubbery | None Detected | 100% NON FIBROUS MATERIAL |
| Layer 2: | | Mastic<br>Clear, Soft | None Detected | 100% NON FIBROUS MATERIAL |
| FT-03A | 31321036 | | | |
| Layer 1: | | Floor Tile<br>Yellow, Organically Bound | None Detected | 100% NON FIBROUS MATERIAL |
| FT-03B | 31321037 | | | |
| Layer 1: | | Floor Tile<br>Yellow, Organically Bound | None Detected | 100% NON FIBROUS MATERIAL |
| FT-04A | 31321038 | | | |
| Layer 1: | | Floor Tile<br>Gray, Rubbery | None Detected | 100% NON FIBROUS MATERIAL |
| FT-04B | 31321039 | | | |
| Layer 1: | | Floor Tile<br>Gray, Rubbery | None Detected | 100% NON FIBROUS MATERIAL |
| FT-05A | 31321040 | | | |
| Layer 1: | | Floor Tile<br>Gray, Rubbery | None Detected | 100% NON FIBROUS MATERIAL |
| Layer 2: | | Mastic<br>Clear, Soft | None Detected | 100% NON FIBROUS MATERIAL |
| FT-05B | 31321041 | | | |
| Layer 1: | | Floor Tile<br>Gray, Rubbery | None Detected | 100% NON FIBROUS MATERIAL |
| Layer 2: | | Mastic<br>Clear, Soft | None Detected | 100% NON FIBROUS MATERIAL |

**Total Number of Pages in Report: 5**

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| Client Sample No. | SLI Sample/ Layer ID | Sample Identification/ Layer Name | PLM Analysis Results: Asbestos Fibers | PLM Analysis Results: Other Materials |
|---|---|---|---|---|
| LIN-01A | 31321042 | | | |
| Layer 1: | | Linoleum<br>Blue, Fibrous | None Detected | 45% CELLULOSE FIBER<br>55% NON FIBROUS MATERIAL |
| LIN-01B | 31321043 | | | |
| Layer 1: | | Linoleum<br>Blue, Fibrous | None Detected | 45% CELLULOSE FIBER<br>55% NON FIBROUS MATERIAL |
| PI-01 | 31321044 | | | |
| Layer 1: | | Paper Insulation<br>Tan, Fibrous | None Detected | 90% CELLULOSE FIBER<br>10% NON FIBROUS MATERIAL |
| SRJC-01A | 31321045 | | | |
| Layer 1: | | Joint Compound<br>White, Granular | None Detected | 100% NON FIBROUS MATERIAL |
| SRJC-01B | 31321046 | | | |
| Layer 1: | | Joint Compound<br>White, Granular | None Detected | 100% NON FIBROUS MATERIAL |
| SRJC-01C | 31321047 | | | |
| Layer 1: | | Joint Compound<br>White, Granular | None Detected | 100% NON FIBROUS MATERIAL |
| SRJC-02A | 31321048 | | | |
| Layer 1: | | Joint Compound<br>White, Granular | None Detected | 100% NON FIBROUS MATERIAL |
| SRJC-02B | 31321049 | | | |
| Layer 1: | | Joint Compound<br>White, Granular | None Detected | 100% NON FIBROUS MATERIAL |
| SRJC-02C | 31321050 | | | |
| Layer 1: | | Joint Compound<br>White, Granular | None Detected | 100% NON FIBROUS MATERIAL |

**Total Number of Pages in Report: 5**

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| Client Sample No. | SLI Sample/ Layer ID | Sample Identification/ Layer Name | PLM Analysis Results: Asbestos Fibers | PLM Analysis Results: Other Materials |
|---|---|---|---|---|
| SS-01 | 31321051 | | | |
| Layer 1: | | Fibrous Material<br>Tan, Fibrous | None Detected | 90% CELLULOSE FIBER<br>10% NON FIBROUS MATERIAL |
| SU-01 | 31321052 | | | |
| Layer 1: | | Undercoat<br>Black, Bituminous | None Detected | 100% NON FIBROUS MATERIAL |
| WG-01A | 31321053 | | | |
| Layer 1: | | Window Glazing<br>White, Granular | None Detected | 100% NON FIBROUS MATERIAL |
| WG-01B | 31321054 | | | |
| Layer 1: | | Window Glazing<br>White, Granular | None Detected | 100% NON FIBROUS MATERIAL |
| WG-01C | 31321055 | | | |
| Layer 1: | | Window Glazing<br>White, Granular | None Detected | 100% NON FIBROUS MATERIAL |
| WG-02A | 31321056 | | | |
| Layer 1: | | Window Glazing<br>White, Granular | None Detected | 100% NON FIBROUS MATERIAL |
| WG-02B | 31321057 | | | |
| Layer 1: | | Window Glazing<br>White, Granular | None Detected | 100% NON FIBROUS MATERIAL |
| WG-02C | 31321058 | | | |
| Layer 1: | | Window Glazing<br>White, Granular | None Detected | 100% NON FIBROUS MATERIAL |
| SU-01 | 31321543 | | | |
| Layer 1: | | Window Glazing<br>Cream, Granular | None Detected | 100% NON FIBROUS MATERIAL |

**Analyst:** **SAMANI ABDELFADIEL** **Reviewed By:** **Hind Eldanaf, Microscopy Supervisor**

**Total Number of Pages in Report: 5**

Results relate only to samples as received by the laboratory. Visit www.slabinc.com for current certifications.

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**ST. CROIX ENVIRONMENTAL**
Golden Oaks Drive, Hudson, WI 55 Telephone: (715) 381-5701

# ASBESTOS BULK SAMPLE REQUEST FORM

3556-12-41



| | | | |
|---|---|---|---|
| **LABORATORY:** SCHNEIDER LABORATORIES, INC. | 2512 West Cary Street, Richmond, VA 23220 | 800-785-5227 | **ST. CROIX ACCT #:** |
| **CLIENT NAME & ADDRESS**<br>City of St. Paul | | | **Sample Date:** 01-16-12 |
| | **Turnaround Time:** 48 Hour | | |
| | **Analysis:** PLM Standard | | |
| **Site:** House at 662 Cottage Avenue, St. Paul, MN | **Special Instructions:** *Fax results to St. Croix and Parks Environmental* | | |
| **Sampled by:** Tim Marxhausen (MDH AI-2271) | **Project No.** | | |

| Sample Number | Sample Number | Sample Number | Sample Number | Sample Number |
|---|---|---|---|---|
| CM-01 | FT-02B | PI-01 | WG-01B | |
| CTEX-01A | FT-02C | SRJC-01A | WG-01C | |
| CTEX-01B | FT-03A | SRJC-01B | WG-02A | |
| CTEX-01C | FT-03B | SRJC-01C | WG-02B | |
| CTEX-02A | FT-04A | SRJC-02A | WG-02C | |
| CTEX-02B | FT-04B | SRJC-02B | | |
| CTEX-02C | FT-05A | SRJC-02C | | |
| FT-01A | FT-05B | SS-01 | | |
| FT-01B | LIN-01A | SU-01 | | |
| FT-02A | LIN-01B | WG-01A | | |

WorkOrderKey
V : \ 862 \ 862644

RECEIVED
JAN 17 2012
BY: FAUI GHRAIZI

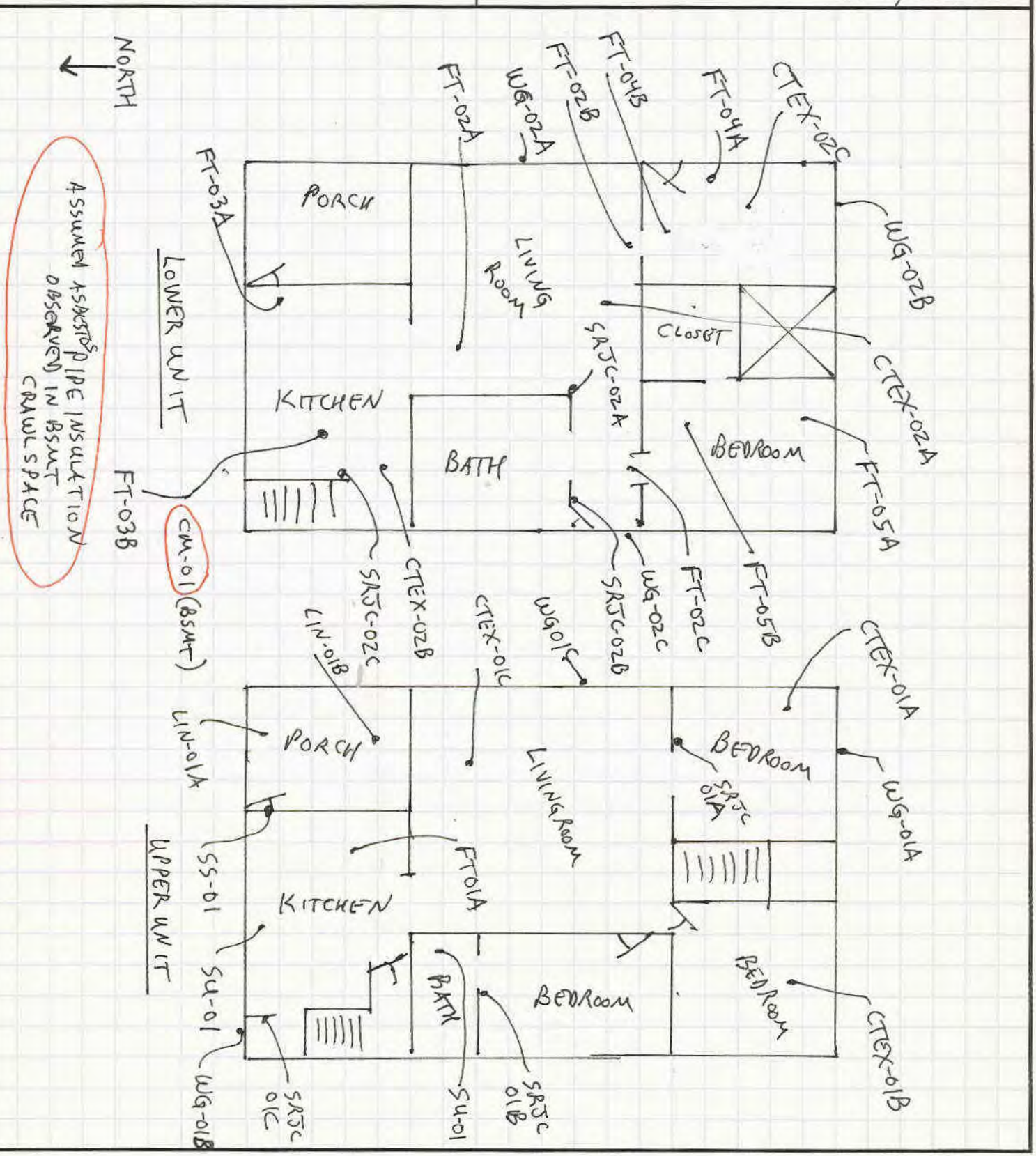
| | | |
|---|---|---|
| **Sampled & Relinquished by:** T. Marxhausen | **Received by:** UPS 3661 s | |
| **Date & Time** 1-16-12 UPS | **Date & Time** | **Sealed Condition Yes / No** |

# APPENDIX B

## SITE SKETCH WITH SAMPLE LOCATIONS

PARKS
Environmental Consulting, Inc.
4749 Chicago Avenue S.
Minneapolis, MN 55407

Project No. 9360 Page 1 of 1
Project Name SCE / DPED
By TIM M. Date 1-16-12
Subject ASBESTOS SURVEY - 662 COTTAGE AVE., ST. PAUL



# APPENDIX C

## INSPECTOR CERTIFICATION CARD

MDH

**ASBESTOS INSPECTOR**

Certified by:
State of Minnesota
Department of Health

**Expires: 04/21/2012**

**Timothy J Marxhausen**
**4805 Elliot Ave**
**Minneapolis, MN 55417**

Director, Env. Health Div.

No. AI2271

Issued: 05/04/2011

Midwest
Environmental
Consulting, L.L.C.

January 20, 2012

Kevin Miller
St. Croix Environmental, Inc.
1094 Golden Oaks Drive
Hudson WI 54016

RE: HUD Lead-Based Paint Inspection and Risk Assessment at the Duplex Residential Property, 662 Cottage Avenue East, St. Paul, Minnesota (St. Croix Environmental Phone: 715-381-5701)

Dear Kevin Miller:

At the request of St. Croix Environmental, Midwest Environmental Consulting, L.L.C. (MEC) performed a HUD lead-based paint inspection and risk assessment of the duplex property located at 662 Cottage Avenue East, St. Paul, Minnesota on January 17, 2012.

Andrew Myers, MEC, Minnesota-licensed lead risk assessor (MN LR #578) performed all field work associated with this project. MEC credentials can be found in Appendix A.

The purpose of this project was to determine whether lead-based paint or other lead hazards are present on the interior or exterior surfaces of the residential property. This report contains the results of the HUD lead-based paint inspection and risk assessment.

The inspection was conducted following the Housing and Urban Development (HUD) *"Guidelines for the Evaluation and Control of Lead-Based Paint in Housing,"* using Chapter 5 and the October 1997 revised Chapter 7 protocols. The sampling criteria used are those outlined in the HUD Standards 24 CFR Part 35 et al, "*Requirements for Notification Evaluation and Education of Lead-Based Paint Hazards in Federally Owned Residential Property and Housing Receiving Federal Assistance*." No lead dust wipes or soil samples were collected as a part of this evaluation at the request of St. Croix Environmental, Inc. and Parks Environmental Consulting, Inc.

According to HUD protocol, if the first 5 of a building component are identified as positive for lead-based paint, the remaining like components are assumed to be lead-based paint containing.

125 Railroad Avenue SW ❋ Mora, Minnesota 55051
Phone: 763-691-0111 / 320-679-4054 ❋ Fax: 763-691-0145 / 320-679-4442
Training Center: Coon Rapids, MN ❋ Regional Office: New Praque, MN

## SITE DESCRIPTION

The duplex residential property located at 662 Cottage Avenue East, St. Paul, Minnesota is a two story wood framed structure built on a stone & concrete foundation/basement constructed in approximately the early 1900's. The interior walls and ceilings have been updated to drywall in most areas with some patchy areas of plaster remaining. Windows are a combination of wood double hung windows and vinyl windows. Only a few original vintage windows remain. The exterior is stucco. The soffit is wood in the front. Most other areas of soffit & trim are wrapped in aluminum cladding. There is a detached wood framed and side garage at the rear of the property with alley access. A newer addition garage has been attached to the front of the original garage.

Bare soil was not observed on the day of the site evaluation due to snow cover. The house is currently vacant.

## RESULTS OF PAINT INSPECTION

MEC used a paint inspection sampling strategy as described in the HUD *Guidelines* (1995 and revised Chapter 7 in October 1997). The results of portable X-Ray Fluorescence (XRF) spectrum analysis of representative building components in each functional area or room are shown in Appendix B. Results are organized and shown in actual sequence of analysis. All tests were made using a Niton® XLp 306 X-Ray Fluorescence Spectrum Analyzer (Serial # 22554).

XRF analytical results in Appendix B, in the column labeled "Results" represent lead concentrations per square centimeter of painted surface ($mg/cm^2$).

HUD regulations 24 CFR Part 35 et al, the HUD *Guidelines* and the Minnesota Department of Health (MDH) define the paint action level as lead concentrations at or above the level of 1.0 $mg/cm^2$ when measured with a portable XRF instrument (0.5% by weight when measured by laboratory methods).

The lead-based paint risk assessment protocol described in the HUD *Guidelines* and the EPA regulations rely on evaluation of surface coatings meeting the definition of poor, planned renovations, presence of dust and soil above current EPA and Minnesota Department of Health (MDH) Standards.

Tests are performed on each test combination. A test combination consists of unique combinations of substrate, color, building component, and location.

XRF results are classified as positive or negative. A positive classification indicates that lead is present on the testing combination at or above the HUD standards. It's important to note that the limited inspection of surfaces tested only applies to those surfaces

areas tested and does not meet the requirements of a full HUD lead-based paint inspection and those surface areas not tested would be assumed to contain lead-based paint.

Appendix B includes a record of XRF calibration checks. Those checks were performed on thin films supplied by the XRF manufacturer; they contain known concentrations of lead. The graphs in that appendix show the variation of quality control with time. The assays in the table of raw data (Appendix B) that are labeled "Calibrate" indicate that they are for quality control. Additional quality control data and information are available to you upon request.

Side A: North, faces Cottage Avenue
Side B: East, faces residential properties
Side C: South, faces alley
Side D: West, faces residential properties

Specific building components determined to have a lead concentration above the action level of (1.0 mg/cm$^2$) are listed below:

| LOCATION | COMPONENT |
|---|---|
| Floor 1, Unit 1, Kitchen | Ceramic tile walls |
| Basement Stair, Side B | Painted wood window components |
| Basement Stair, Side B | Metal window components (depth index indicates lead beneath metal surfaces) All homogeneous basement windows should be assumed to be the same. |
| Front Stair to Floor 2 | Painted wood baseboards |
| Floor 2, Unit 2, Living Room | Metal window trough (depth index indicates lead beneath metal surfaces) |
| Floor 2, Unit 2, Bedroom 1 | Wood door |
| Floor 2, Unit 2, Bedroom 2 | Metal window trough (depth index indicates lead beneath metal surfaces) |
| Floor 2, Unit 2, Bathroom | Metal window trough (depth index indicates lead beneath metal surfaces) |
| Floor 2, Unit 2, Bathroom | Bath tub |
| Floor 2, Unit 2, Bathroom | Ceramic tile floor |
| Floor 2, Unit 2, Kitchen | Wood door |

| | |
|---|---|
| Porch, Floor 2 | Painted wood door & door components |
| Porch, Floor 2 | Painted wood window components |
| Porch, Floor 2, Side D | Painted wood door threshold |
| Porch, Floor 2 | Stucco walls |
| Porch, Floor 2 | Vinyl baseboards |
| Exterior | All metal window casing (depth index indicates lead beneath metal surfaces) |
| Exterior | All painted stucco walls |
| Exterior | Painted wood soffits |
| Porch | Painted stucco walls |
| Garage | Painted wood siding, soffit & trim |
| Back Stair to 2nd Floor | Painted wood baseboards, skirt & stringer |
| Back Stair to 2nd Floor | Painted drywall walls |

Also included in Appendix B of this report is a rating of the condition of paint on components (column titled "Condition"). Comments on the condition include:

**Intact:** good condition; **Fair:** less than 2 square feet of damage to large interior surface, i.e., wall, less than 10 square feet of damage to large exterior surface, i.e., outside walls, or less than 10% damage to small surface areas, i.e., baseboards, trim, etc.; **Poor:** more than 2 square feet of damage on large interior surfaces, more than 10 square feet of damage to large exterior surface areas, or more than 10% damage to small surface areas.

## RESULTS OF LEAD RISK ASSESSMENT

The risk assessment portion of this investigation involved collecting information about the property through a visual inspection of the dwelling and reviewing paint test data. No lead dust wipe samples or bare soil samples were collected during this risk assessment. It will be assumed that lead dust hazards are above the defined action levels. It is also assumed that if bare soil is present that the bare soil levels are above the defined action levels.

- The date of construction of the residence is approximately the early 1900's
- The property is a duplex residential structure.
- Windows are a combination of double hung wood windows & vinyl windows with

aluminum cladding.
- Interior walls & ceilings are primarily drywall with some areas of plaster.
- The property is currently vacant
- There is a detached wood framed garage with alley access and a newer vintage garage on the front of it.
- Bare soil was not observed due to snow cover.
- The property is currently vacant.

**Visual Inspection**

MEC conducted an inspection of painted and varnished surfaces on the interior and exterior of the residence. Emphasis was placed on chewable surfaces within 5 feet of the ground or floor.

The results of the visual inspection indicate that the exterior and interior of the structure is mainly in poor condition with some components in intact or fair condition. The porches and original garage are in mainly poor condition.

Please note, however, the condition report within the XRF table for painted or varnished surfaces found to be fair or poor, that were below the 1.0 mg/cm$^2$ action level.

Dust wipe and bare soil samples were not collected from the residence as a part of this evaluation, as requested by St. Croix Environmental and must be assumed to be above the defined numerical lead hazards. Water and sodium rhodizonate swabs were also not collected as part of this project.

## RECOMMENDATIONS

Lead-based paint or lead hazards were found during the inspection and risk assessment of the property including kitchen ceramic tile walls; painted interior and exterior painted wood window components; under metal window components; painted wood baseboards; some interior wood doors; bathtub; bathroom ceramic tile floor; upper porch doors, windows, & trim; stucco walls; vinyl porch baseboards; exterior wood trim; garage siding, soffit & trim; and the back stair drywall walls.

According to HUD protocol, if the first 5 of a building component are identified as positive for lead-based paint, the remaining like components are assumed to be lead-based paint containing.

At the request of the City of St. Paul, only abatement options are provided for lead hazards identified during this evaluation. Abatement options can include removal of building components to the substrate and replacement with new lead free products;

enclosure of building components under dust tight barriers, encapsulation or removal of coatings to the substrates and re-coating with lead free coatings.

**Floor 1, Unit 1 Kitchen:**
Ceramic tile walls: In intact condition.

- Option 1: Include into an operation & maintenance plan with ongoing monitoring. Do not use harsh abrasive for cleaning as these may abrade the surfaces. Use Lead Safe Work Practices if ceramic tile will be disturbed during planned renovations.
- Option 2: Remove tile to the substrate using Lead Safe Work Practices and replace with new lead free products.
- Option 3: Enclose under a dust & air tight barrier such as drywall and include into an Operation & Maintenance Plan with ongoing monitoring.

**Stairway to Basement:**
Painted wood window components: In poor condition.

- Option 1: Remove window components to raw openings using Lead Safe Work Practices and replace with new lead free window components
- Option 2: Enclose under a dust & air tight barrier such as aluminum cladding and include into an Operation & Maintenance Plan with ongoing monitoring.

Metal window components (depth index indicates lead beneath metal surfaces: In intact condition.

- Option 1:Include into an Operation & Maintenance Plan with ongoing monitoring.(The metal cladding is already an enclosure). Ensure that seams are maintained in a sealed condition with elastomeric caulk.
- Option 2: Remove window components to raw openings using Lead Safe Work Practices and replace with new lead free window products.
- Option 3: Remove coatings under cladding to bare substrate and re-coat with lead free coatings.

**Front Stairway to 2nd Floor:**
Painted wood baseboards: In poor condition.

- Option 1: Remove baseboards using Lead Safe Work Practices and replace with new lead free components.
- Option 2: Enclose baseboards under a dust tight barrier.
- Option 3; Remove coatings to bare substrate and re-coat with lead free coatings.
- Option 4: Encapsulate with an approved lead abatement encapsulant such as Safe Encasement® or equivalent.

**Floor 2, Unit 2, Living Room:**
Metal window trough (depth index indicates lead beneath metal surfaces): In fair condition.

- Option 1: Remove and replace damaged metal cladding making sure that seams and seals are air tight and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 2: Remove window components to raw opening using Lead Safe Work Practices and replace with new lead free window components.
- Option 3: Remove cladding and coatings to bare substrate using Lead Safe Work Practices and re-coat with lead free coatings.

**Floor 2, Unit 2, Bedroom 1:**
Wood door: In intact condition.

- Option 1: Remove door using Lead Safe Work Practices and replace with new lead free components.
- Option 2: Remove coatings to bare substrate using Lead Safe Work Practices and re-coat with lead free coatings.
- Option 3: Include into an Operation & Maintenance Plan with ongoing monitoring.

**Floor 2, Unit 2, Bedroom 2:**
Metal window trough (depth index indicates lead beneath metal surfaces): In intact condition.

- Option 1:Include into an Operation & Maintenance Plan with ongoing monitoring.(The metal cladding is already an enclosure).Ensure that seams are maintained in a sealed condition with elastomeric caulk.
- Option 2: Remove window components to raw openings using Lead Safe Work Practices and replace with new lead free window products.
- Option 3: Remove coatings under cladding to bare substrate and re-coat with lead free coatings.

**Floor 2, Unit 2, Bathroom:**
Metal window trough (depth index indicates lead beneath metal surfaces): In fair condition.

- Option 1: Remove and replace damaged metal cladding making sure that seams and seals are air tight and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 2: Remove window components to raw opening using Lead Safe Work Practices and replace with new lead free window components.
- Option 3: Remove coatings under cladding to bare substrate and re-coat with lead free coatings.

Bath tub: In intact condition.

- Option 1: Include into an Operation & Maintenance plan with ongoing monitoring. Do not use harsh abrasives for cleaning as these may abrade the surfaces.
- Option 2: Remove bath tub using Lead Safe Work Practices and replace with new lead free products.
- Option 3: Enclose tub under a lead free tub surround and include into an Operation & Maintenance Plan with ongoing monitoring.

Ceramic tile floor: In intact condition.

- Option 1: Remove floor tile to substrate using Lead Safe Work Practices and replace with new lead free flooring products.
- Option 2: Enclose under air tight barrier and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 3: Include into an Operation & Maintenance Plan with ongoing monitoring. Do not use harsh abrasives for cleaning as these may abrade the surfaces. (Floors are friction surfaces by walking on them).

**Floor 2, Unit 2, Kitchen**

Wood door: In poor condition.

- Option 1: Remove door using Lead Safe Work Practices and replace with new lead free door.
- Option 2: Remove coatings to bare substrate using Lead Safe Work Practices and re-coat with lead free coatings.

**Floor 2, Porch:**

Painted wood door & door components: In poor condition.

- Option 1: Remove door & door components using Lead Safe Work Practices and replace with new lead free door components.
- Option 2: Remove coatings to bare substrate using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood window sill: In poor condition.

- Option 1: Remove window components to raw opening using Lead Safe Work Practices and replace with new lead free window components.
- Option 2: Remove coatings to bare substrate using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood door threshold: In poor condition.

- Option 1: Remove door threshold using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Remove coatings to bare substrate using Lead Safe Work Practices and re-coat with lead free coatings.
- Option 3: Enclose under an air tight barrier and include into an Operation &

Maintenance Plan with ongoing monitoring.

Painted stucco walls: In poor condition.

- Option 1: Remove stucco covering to substrates using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Remove coatings to bare substrate using Lead Safe Work Practices and re-coat with lead free coatings.
- Option 3: Enclose under air tight barrier such as drywall and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 4: Enclose with a weather barrier and low maintenance siding.

Vinyl baseboards: In poor condition.

- Option 1: Remove baseboards using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Enclose under a dust and air tight barrier and include into an Operation & Maintenance Plan with ongoing monitoring.

**Exterior:**

Metal window casings (depth index indicates lead beneath the metal surfaces: In intact condition.

- Option 1:Include into an Operation & Maintenance Plan with ongoing monitoring.(The metal cladding is already an enclosure). Ensure that seams are maintained in a sealed condition with elastimarik caulk.
- Option 2: Remove window components to raw openings using Lead Safe Work Practices and replace with new lead free window products.
- Option 3: Remove coatings under cladding to bare substrate and re-coat with lead free coatings.

Painted stucco: In fair condition.

- Option 1: Remove stucco covering to substrates using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Remove coatings to bare substrate using Lead Safe Work Practices and re-coat with lead free coatings.
- Option 3: Enclose under a weather barrier and an air tight barrier such as vinyl or aluminum low maintenance siding and include into an Operation & Maintenance Plan with ongoing monitoring.

Painted wood soffit, Side A: In poor condition.

- Option 1: Remove soffit using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Enclose under a dust and air tight barrier such as aluminum cladding and include into an Operation & Maintenance Plan with ongoing monitoring.

**Lower Level Porch:**
Painted stucco walls: In poor condition.
- Option 1: Remove stucco covering to substrates using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Remove coatings to bare substrate using Lead Safe Work Practices and re-coat with lead free coatings.
- Option 3: Enclose under a dust and air tight barrier such as drywall and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 4: Enclose under a weather barrier and low maintenance siding.

**Garage:**
Painted wood siding, soffits, & trim: In poor condition.
- Option 1: Remove siding, soffits & trim using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Enclose under a dust and air tight barrier such as low maintenance vinyl or aluminum and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 2: Remove coatings to bare substrate using Lead Safe Work Practices and re-coat with lead free coatings.

**Back Stairway to Floor 2:**
Painted wood baseboards: In poor condition.
- Option 1: Remove baseboards using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Enclose under a dust and air tight barrier and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 2: Remove coatings to bare substrate using Lead Safe Work Practices and re-coat with lead free coatings.

Painted drywall walls: In poor condition.
- Option 1: Remove wall system to substrate using Lead Safe Work Practices and replace with new wall systems.
- Option 2: Enclose under an air & dust tight barrier and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 3: Encapsulate with an approved Lead Abatement encapsulant such as Safe Encasement® or equivalent and include into an Operation & Maintenance Plan with ongoing monitoring.

**Lead Dust Hazards**
No lead dust wipes were collected as a part of this evaluation. It is assumed that lead dust is a hazard throughout the property and that dust levels within the complex above the Minnesota Department of Health, the Housing and Urban Development (HUD) and the Environmental Protection Agency (EPA) lead dust levels of 40 micrograms per

square foot ( µg/ft$^2$) for a floor surface, 250 µg/ft$^2$ for a window sill (stool) surface, and 400 µg/ft$^2$ for a window well (trough) surface. All window systems and floors will be required to be cleaned with a good household cleaner and wet methods.

**Lead in Bare Soil**

Bare soil was not observed on the date of the site evaluation due to snow cover. No bare soil samples were collected as a part of this evaluation. If bare soil is present, it is assumed to be above the Minnesota Department of Health defined action level of 100 parts per million.

- Abatement Option 1: Removal of bare soil and replacement with new soil os 25 parts per million of lead or less.
- Abatement Option 2: Covering bare soil with asphalt, concrete or other impervious material.

When qualified contractors are performing the planned renovation/remodeling activities, precautions should be properly done to minimize the potential for lead-based paint contamination to the workers, occupants and the environment.

**DISCUSSION**

The mere presence of lead-coated surfaces does not create a lead hazard. Maintenance of lead containing coatings will prevent lead from becoming a hazard. Lead-based paint above the action level of 1.0 mg/cm$^2$ was found on surfaces tested.

If exterior surfaces are to be remediated and because lead-coatings are present, covering the ground and providing adequate protection to soil is very important if bare soil is present.

Dust wipe samples were not collected lead dust levels are assumed to be above the action levels on floor and window surfaces as defined by MDH, HUD and EPA. Contractors will be required to clean all floor systems and window surfaces throughout the complex for lead hazards in dust following and as a part of the planned restoration.

The preceding lead reduction recommendations include different ways to treat each lead hazard that was identified by the risk assessment/inspection. The most effective treatments are considered abatement and require little or no ongoing maintenance to preserve a lead safe environment. The less effective treatments are called interim controls and these treatments require an increased amount of ongoing maintenance to preserve a lead safe environment.

If no lead dust, soil, or lead-based paint is found, then no monitoring is required.

If no hazards are found, but lead-based paint is found, then reevaluation should occur

every three years, and an owner's visual survey should occur annually.

If lead dust, soil, or lead-based paint hazards are found to be present, choosing the option with removal of all lead-based paint will result in no monitoring requirements. If abatement options are chosen that include enclosure, then no re-evaluation is required, but the owner should conduct visual surveys every year to ensure the enclosure has not failed. If the interim control options (stabilize and paint) are chosen, then re-evaluation should occur after the first year and then every two years after that. Visual surveys by the owner should occur annually. If the enclosure option is chosen, the owner must conduct a visual evaluation at (6) six months and annually thereafter. If the encapsulation option is selected, the owner must conduct a visual evaluation at (1) one month, then a (6) six months and annually thereafter.

If lead dust levels are found to be more than ten times the standard levels, then reevaluation after interim control measures should occur six months after the hazard reduction.

In general, all painted surfaces should be monitored. A negative result does not necessarily indicate that no lead is present in that surface, but rather indicates that any lead present in that surface does not rise above the 1.0 mg/cm$^2$ threshold in the areas tested. Therefore, all painted surfaces should be maintained in accordance with the Minnesota Department of Health standards.

**ROUGH ESTIMATED COSTS:**

- Work site preparation for interior, approximately $75.00 to $250.00 per room.
- Window replacement, approximately $150.00 and up, depending on style.
- Exterior preparation approximately $35.00 to $75.00 per component (i.e., windows, doors), removal or enclosure.
- Work area cleaning: $0.15 to $0.35 per square foot.
- Paint stabilization: $0.20 to $0.65 per square foot.
- Removal: Paint - chemical stripper: $0.65 to $1.50 square foot.
- Soil Remediation:
  a. Clean-up of visible exterior paint chips: $0.90 to $1.35 square foot.
  b. Seed and tack grass: $0.45 to $0.75 square foot.
  c. Sod: $1.25 to $3.30 square foot.
  d. Regrade at foundation and sod: $3.00 to $5.00 square foot.
  e. Mulch - 4": $0.50 to $0.90 square foot.

f. Concrete: $4.50 to $8.00 square foot.
g. Replace soil: $42.00 to $65.00 cubic yard.

If work is going to be performed on these surfaces, individuals and/or contractors should be informed of the results of testing. At a minimum, the person(s) performing the work should follow the requirements of the Occupational Safety and Health Administration (OSHA) Standard 29 CFR 1926.62, Lead in the Construction Industry.

For the protection of the occupants and workers, and because of the use of federal funds, you are required by the HUD rules to use qualified firms who are knowledgeable about the hazards associated with lead. Supervisor should be licensed and workers will be required to be licenced or certified, as MEC understands the scope of work.

Please maintain a copy of the lead inspection/risk assessment report for your records and provide a copy of the report to any contractors that may be involved in any future renovations or remodeling projects.

A copy of this lead inspection/risk assessment summary must be provided to purchasers or lessees (tenants) of this property under Federal Law (24 CFR Part 35 and 40 CFR part 745) before they become obligated under a lease or sales contract.

The complete report must also be provided to new purchasers and it must be made available to new tenants. Landlords (lessors) and sellers are also required to distribute an educational pamphlet approved by the U.S. Environmental Protection Agency and include standard warning language in their leases or sales contracts to ensure that parents have the information they need to protect their children from lead-based paint hazards.

It has been our pleasure to provide this service to you and your organization. Please contact me if you have questions relating to any aspect of this work.

Respectfully submitted,

Andrew Myers
Environmental Project Manager

# APPENDIX A

# INSPECTOR CREDENTIALS

# Minnesota Department of Health

has authorized

**Midwest Environmental Consulting, LLC**
**145 2nd Ave SE**
**Cambridge, Minnesota 55008**

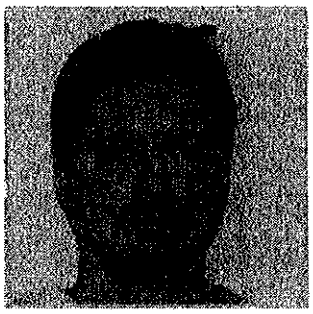
in accordance with Minnesota Statutes, section 144.9505 and Minnesota Rules, part 4761.2200, to practice in the State of Minnesota as a

# Certified Lead Firm

**License No: LF551**
**Expires 03/28/2012**

This certificate is nontransferable.

Linda B. Bruemmer
**Linda B. Bruemmer, Director**
**Division of Environmental Health**



Director, Env. Health Div.

MDH LEAD
Risk Assessor

Licensed by:
State of Minnesota
Department of Health

**License No. LR578**
**Expires 08/26/2012**

**Andrew J Myers**
**210 2nd St N**
**New Prague, MN 56071**

**Andrew J. Myers**

has completed the Minnesota-Approved Lead Training course entitled:

**Lead Risk Assessor Refresher Training**

**August 25, 2011**

given by

Midwest Environmental Consulting, L.L.C.
145 - 2nd Avenue SE, Cambridge, MN 55008
Phone: 763.691.0111

**SUCCESSFULLY PASSED THE EXAMINATION ON August 25, 2011, IN Cambridge, MINNESOTA**

IDENTIFICATION NUMBER: MEC/LRAR 0847
Expiration Date: August 25, 2012
MDH Permit Number: RAR-006

Course Director/Primary Instructor

*Approved by the State of Minnesota under Minnesota Rules, parts 4761.2000 to 4761.2700.*

I-0031

# Lead Inspector Independent Examination

121 East Seventh Place, Suite 220 • St. Paul • Minnesota 55101 • (651) 215-0700

*This certifies that*

## Andrew Myers

*has successfully passed the required independent examination for:*

## Lead Inspector

March 22, 2001
Morris, Minnesota

*This certificate is nontransferable.*

Jan K. Malcom
Commissioner

Patricia A. Bloomgren, Director
Division of Environmental Health

**Andrew J. Myers**

has completed the Minnesota-Approved Lead Training course entitled:

**Initial Lead Inspector Training**
**March 12-14, 2001**

given by

Midwest Environmental Consulting, L.L.C.
145 - 2ND Avenue SE, Cambridge, MN 55008

SUCCESSFULLY PASSED THE EXAMINATION ON MARCH 14, 2001, IN BORGIS, MINNESOTA

IDENTIFICATION NUMBER: MEC/LIT-0053
Expiration Date: March 14, 2002
MDH Permit No: LI - 003

Course Director

MINNESOTA
MDH
DEPARTMENT OF HEALTH

RA-0239

# Lead Risk Assessor Independent Examination

121 East Seventh Place, Suite 220 • St. Paul, Minnesota 55101 • (651) 215-0700

*This certifies that*

## Andrew Myers

*has successfully passed the required independent examination for:*

## Lead Risk Assessor

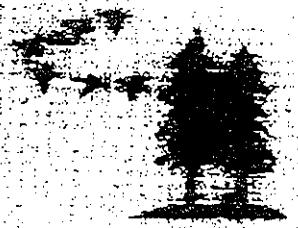
June 26, 2001
Minneapolis, Minnesota

*This certificate is nontransferable.*

Jan K. Malcom
Commissioner

Patricia A. Bloomgren

Patricia A. Bloomgren, Director
Division of Environmental Health



**Andrew J. Myers**

has completed the Minnesota Approved Lead Training course entitled:

**Lead-Based Paint Risk Assessor Training**

**June 25-26, 2001**

given by

Midwest Environmental Consulting, L.L.C.
145 - 2nd Avenue SE, Cambridge, MN 55008

- SUCCESSFULLY PASSED THE EXAMINATION ON JUNE 26, 2001, IN MINNEAPOLIS, MINNESOTA

IDENTIFICATION NUMBER: MECI/RA 0111
Expiration Date: June 26, 2002
MDH Permit #: RAI-002

Course Director

# APPENDIX B

XRF TEST RESULTS
SAMPLING MAPS
DATA PAGES
CALIBRATION DATA

## Description of Column Titles

**Site:** The sequential number of the site (homes or buildings) inspected on a particular day.

**No:** The sequential XRF sample number for a given site.

**XL No/Map:** The sample number recorded on the maps of a particular site.

**Date:** Date that the XRF sample was analyzed.

**Time:** Time of XRF sample analysis.

**Floor:** The sample location floor level (0 = basement, 1 = first floor, 2 = second floor).

**Room:** The specific location where the sample was analyzed on the site. Calibrate is also recorded in this column when appropriate.

**Side:** Side of the room based on sampling methodology as described earlier in this report. The only four sides that can be designated are **A, B, C,** and **D.**

**Structure:** This refers to the general building component that the test was performed on. It may also include modifications such as: upper, lower, exterior, interior, right, and left.

**Feature:** Specifies additional information about a structure.

**Condition:** Describes whether the surface being tested is **Intact:** good condition; **Fair:** less than 2 square feet of damage to large interior surface, i.e., wall, less than 10 square feet of damage to large exterior surface, i.e., outside walls, or less than 10% damage to small surface areas, i.e., baseboards, trim, etc.; **Poor:** more than 2 square feet of damage on large interior surfaces, more than 10 square feet of damage to large exterior surface areas, or more than 10% damage to small surface areas.

**Substrate:** Refers to the material that the structure was made of, i.e., wood, concrete, drywall, etc.

**Color:** Color of surface tested.

**Result:** The lead concentration in $mg/cm^2$ as determined with L-shell and K-shell X-ray data.

**PbL($mg/cm^2$):** The lead concentration as determined with L-shell X-ray data.

**RES:** Results: POS - above action level, NEG - below action level.

**PbK:** The lead concentration in $mg/cm^2$ on the K-shell X-ray data spectrum.

**PbC:** The combined lead concentration in $mg/cm^2$ of the L-shell and K-shell X-ray data spectrum.

**Depth:** This is the index that is a qualitative indication of the depth of the lead in paint. As the number approaches 1, the lead is concentrated close to the top layers of paint. The largest number available for depth index is 10. The greater the number, the more likely interfering elements may have been detected.

**Duration:** The length of the XRF sample analysis in seconds.

**Inspector:** When multiple inspectors are used, this number indicates who sampled at the time indicated.

**Note:** This refers to any notes that were collected during the analysis of the particular sample. Then can be found on the field data sheet titled "Lead-Based Paint Inspection Data Page."

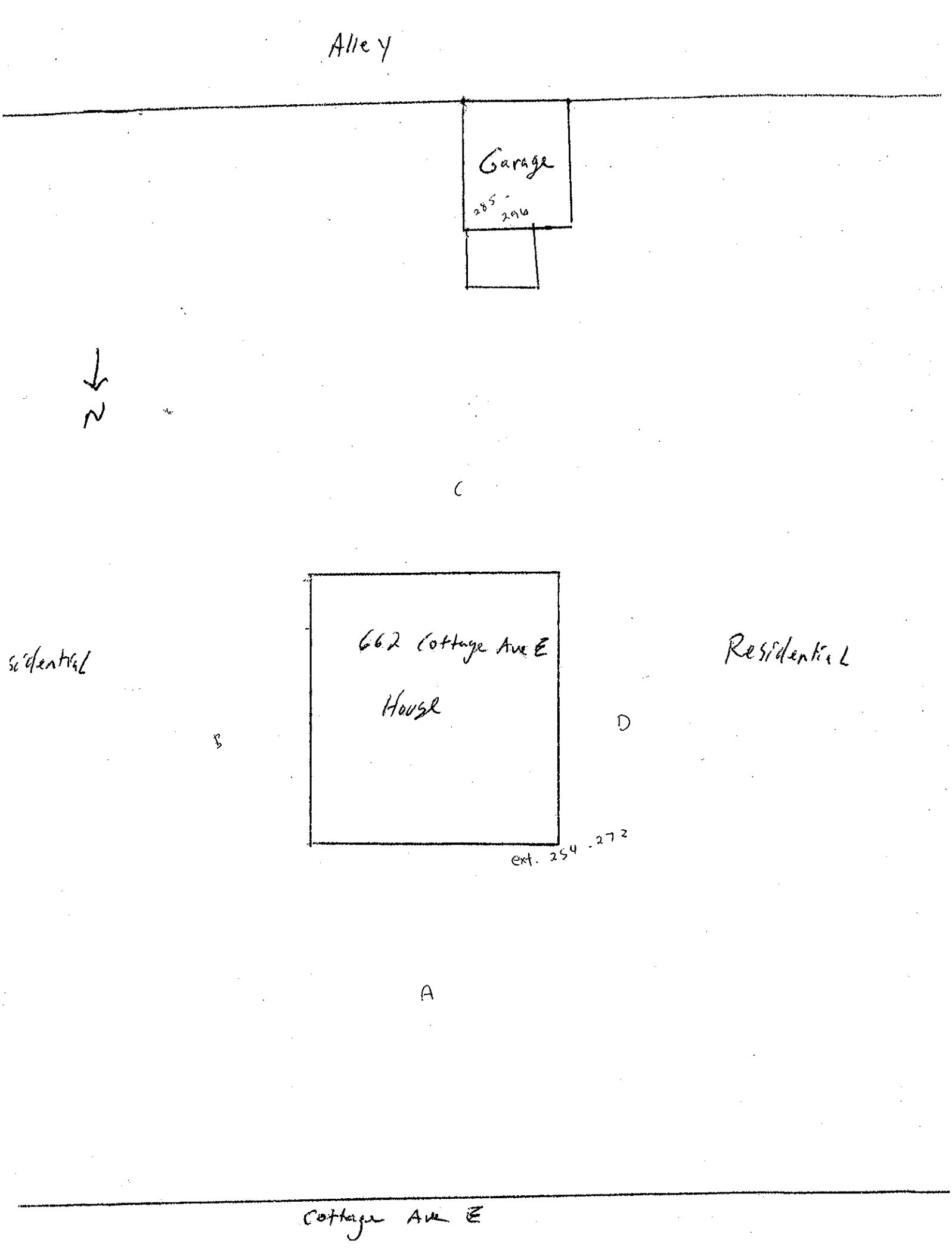
## SAMPLING METHODOLOGY

Buildings were systematically inspected for lead-based paints. The **A** side of the building is the side facing the street. Starting from the **A** side, the other sides are lettered consecutively (**B, C, D**), going clockwise around the building.

Inside the unit, each floor was assigned a number starting with **0** for the basement, **1** for the first floor, and **2** for the second floor.

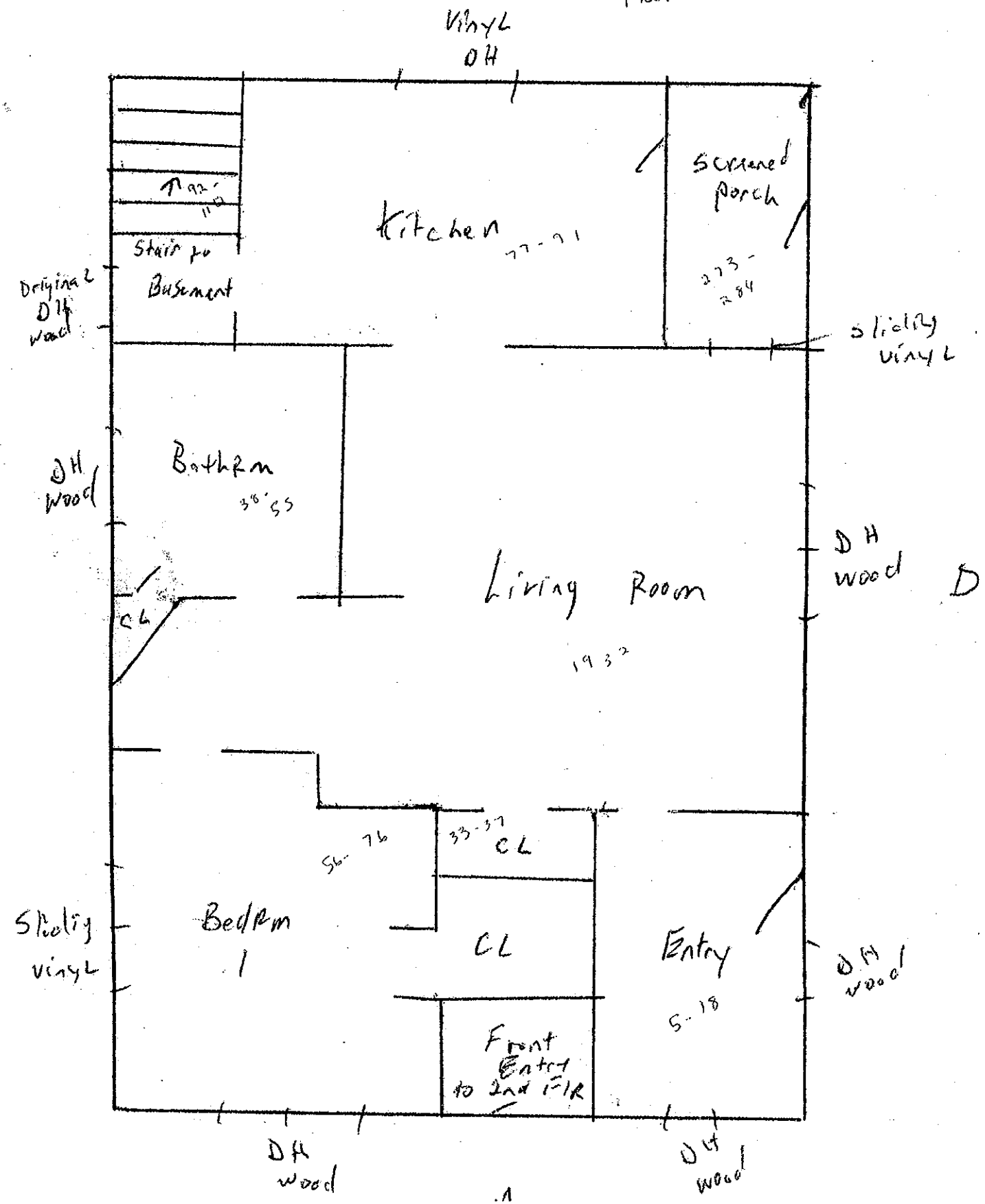
Some rooms that are unique in the building are named on the inspection report. These would include things like pantry, kitchen, halls, bathrooms, and staircases. If there is more than one of a certain type of named room, then they are numbered (e.g., staircases to basements are numbered staircase 1, while staircases to the second floor are labeled staircase 2). Room numbering starts in the **A-D** corner of the building and continues clockwise from that point.

Within each room of the building, each of the sides of the room are named. The naming of walls in a room, for instance, follows the same pattern as that used on the exterior of the building, namely, the street side of each room is labeled **A,** and then clockwise from that wall, walls are labeled **B, C, D**.

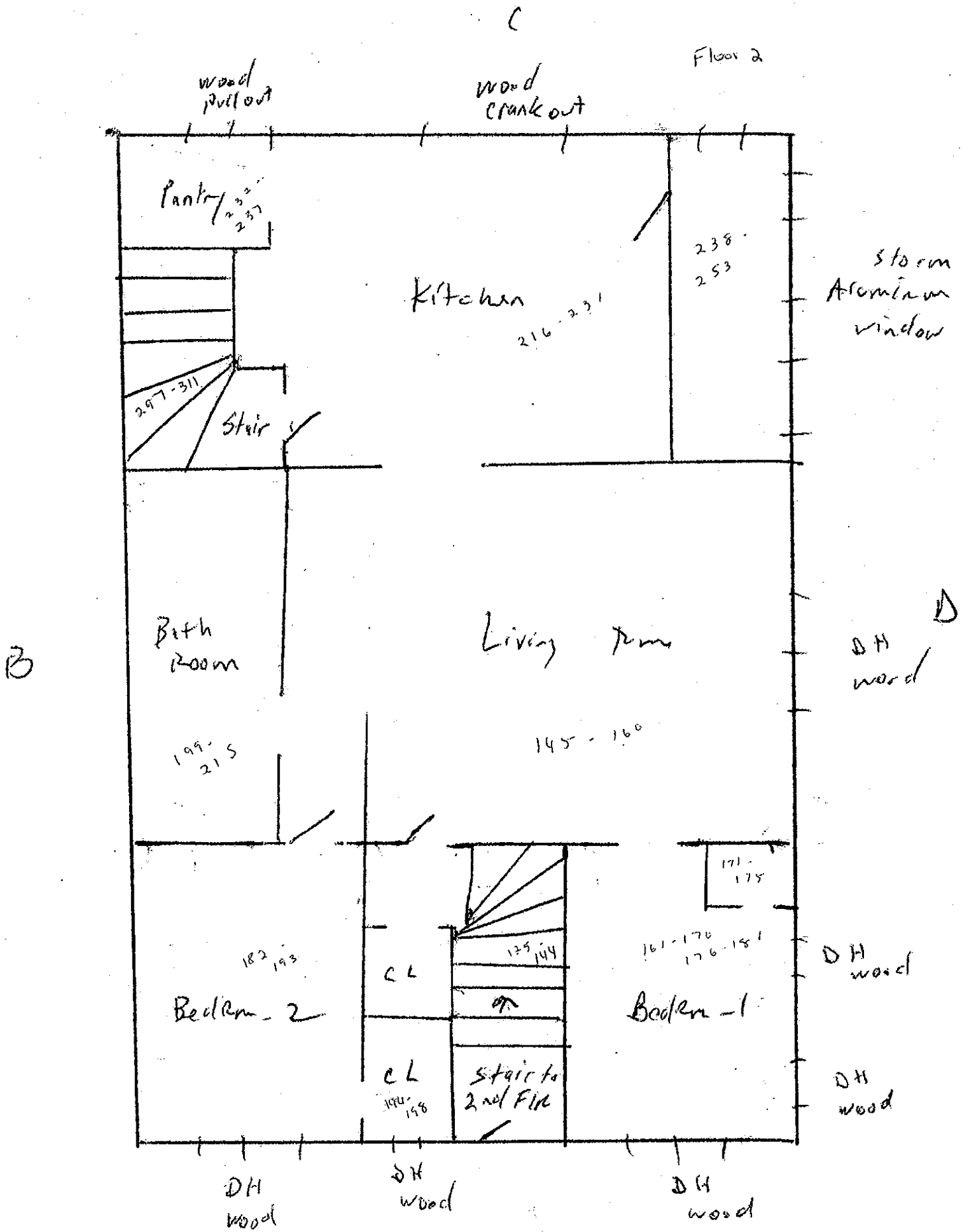

Alley
Garage
285 - 296
N
C
662 Cottage Ave E
House
D
B
Residential
ext. 254 - 272
A
Cottage Ave E

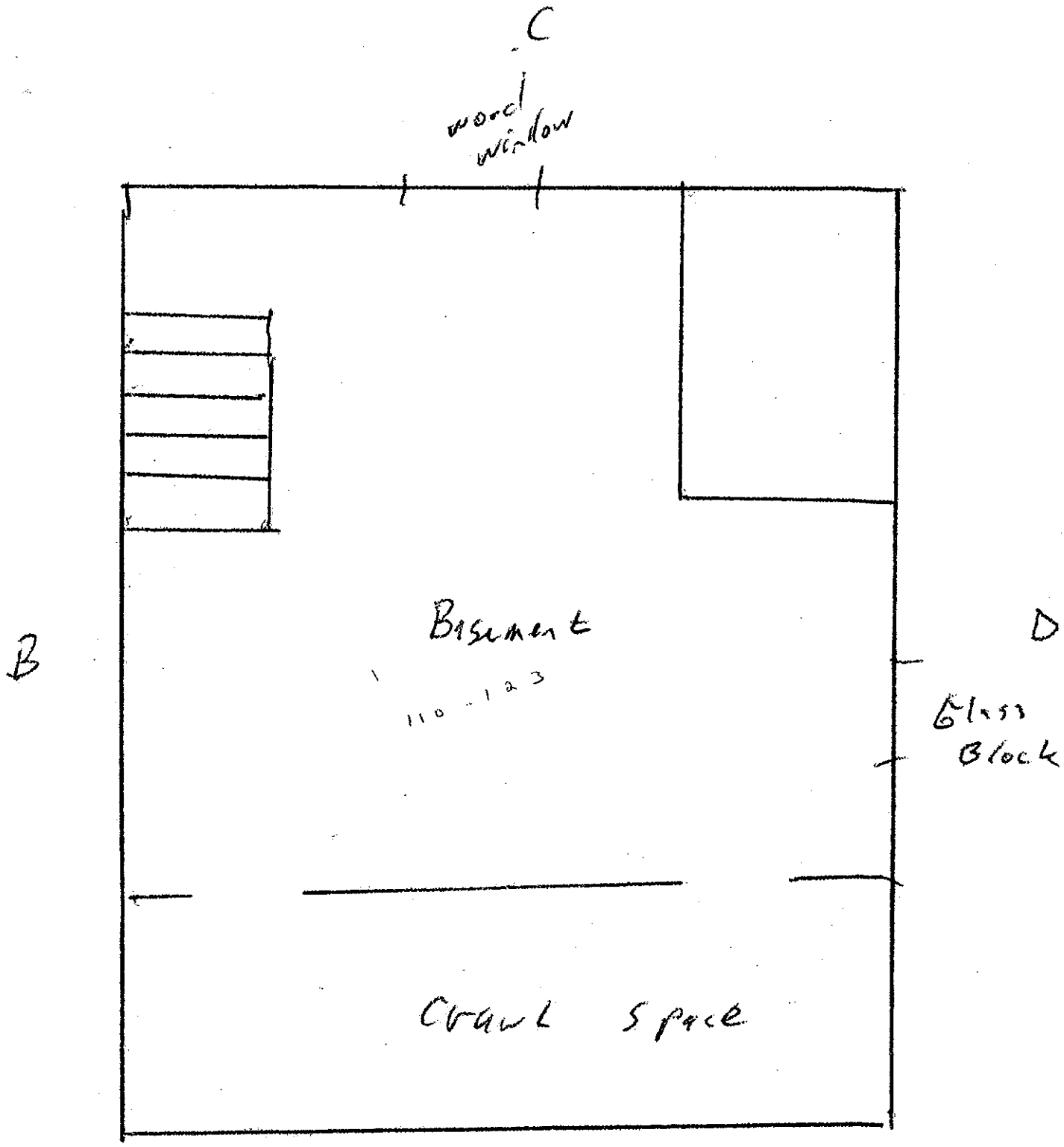
662 Cottage Ave E
St. Paul MN

Floor 1



662 Cottage Ave E.
St. Paul MN




C
wood window
B
Basement
110 - 123
D
Glass Block
Crawl Space

St. Croix Environmental
662 Cottage Ave E
St. Paul MN

| Site: St. Croix Environmental - 662 Cottage Ave E, St. Paul MN | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date: Jan. 17, 2012 | | | | | | | | | | | | | | | | | |
| XRF: XLp 306A, Serial # 22554 | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| Site | XRF # | Date/Time | Floor | Room | Unit # | Side | Component | Substrate | Condition | Color | Results | PbC | Pbl | PbK | Duration | Depth | Insp. |
| | 1 | 1/17/2012 11:59 | | | | | | | | | | 1.61 | 0.39 | 0 | 173.26 | | AM |
| 662 Cottage Ave E | 2 | 1/17/2012 12:12 | | | | | calibrate | | | | POS | 1.1 | 1.1 | < LOD | 7.7 | 1.13 | AM |
| 662 Cottage Ave E | 3 | 1/17/2012 12:12 | | | | | calibrate | | | | Null | 1 | 1 | < LOD | 9.82 | 1.12 | AM |
| 662 Cottage Ave E | 4 | 1/17/2012 12:14 | | | | | calibrate | | | | POS | 1 | 1 | < LOD | 20.96 | 1.07 | AM |
| 662 Cottage Ave E | 5 | 1/17/2012 12:16 | 1 | ENTRY | UNIT 1 | D | DOOR | METAL | INTACT | WHITE | Neg | < LOD | < LOD | < LOD | 2.18 | 1 | AM |
| 662 Cottage Ave E | 6 | 1/17/2012 12:17 | 1 | ENTRY | UNIT 1 | D | DOOR jamb | WOOD | INTACT | WHITE | Neg | < LOD | < LOD | < LOD | 2.18 | 1 | AM |
| 662 Cottage Ave E | 7 | 1/17/2012 12:17 | 1 | ENTRY | UNIT 1 | D | DOOR casing | WOOD | INTACT | varnish | Neg | < LOD | < LOD | < LOD | 2.47 | 1 | AM |
| 662 Cottage Ave E | 8 | 1/17/2012 12:18 | 1 | ENTRY | UNIT 1 | D | BASEBOARD | WOOD | INTACT | varnish | Neg | < LOD | < LOD | < LOD | 2.17 | 1 | AM |
| 662 Cottage Ave E | 9 | 1/17/2012 12:18 | 1 | ENTRY | UNIT 1 | D | window casing | WOOD | INTACT | varnish | Neg | < LOD | < LOD | < LOD | 1.16 | 1 | AM |
| 662 Cottage Ave E | 10 | 1/17/2012 12:18 | 1 | ENTRY | UNIT 1 | D | sash | WOOD | INTACT | varnish | Neg | < LOD | < LOD | < LOD | 3.19 | 1 | AM |
| 662 Cottage Ave E | 11 | 1/17/2012 12:19 | 1 | ENTRY | UNIT 1 | | FLOOR | WOOD | INTACT | varnish | Neg | 0.4 | 0.4 | < LOD | 4.49 | 4.63 | AM |
| 662 Cottage Ave E | 12 | 1/17/2012 12:19 | 1 | ENTRY | UNIT 1 | | FLOOR | tile | POOR | BEIGE | Neg | < LOD | < LOD | < LOD | 3.05 | 1 | AM |
| 662 Cottage Ave E | 13 | 1/17/2012 12:20 | 1 | ENTRY | UNIT 1 | D | RADIATOR | METAL | POOR | BLUE | Neg | < LOD | < LOD | < LOD | 2.17 | 1 | AM |
| 662 Cottage Ave E | 14 | 1/17/2012 12:21 | 1 | ENTRY | UNIT 1 | A | WALL | DRYWALL | FAIR | BLUE | Neg | < LOD | < LOD | < LOD | 2.32 | 1 | AM |
| 662 Cottage Ave E | 15 | 1/17/2012 12:21 | 1 | ENTRY | UNIT 1 | B | WALL | DRYWALL | FAIR | BLUE | Neg | < LOD | < LOD | < LOD | 3.63 | 1 | AM |
| 662 Cottage Ave E | 16 | 1/17/2012 12:21 | 1 | ENTRY | UNIT 1 | C | WALL | DRYWALL | FAIR | BLUE | Neg | < LOD | < LOD | < LOD | 2.31 | 1 | AM |
| 662 Cottage Ave E | 17 | 1/17/2012 12:22 | 1 | ENTRY | UNIT 1 | D | WALL | DRYWALL | FAIR | BLUE | Neg | < LOD | < LOD | < LOD | 2.61 | 1.2 | AM |
| 662 Cottage Ave E | 18 | 1/17/2012 12:22 | 1 | ENTRY | UNIT 1 | | CEILING | DRYWALL | INTACT | WHITE | Neg | < LOD | < LOD | < LOD | 1.15 | 1.53 | AM |
| 662 Cottage Ave E | 19 | 1/17/2012 12:23 | 1 | Living Room | UNIT 1 | | CEILING | DRYWALL | INTACT | WHITE | Neg | < LOD | < LOD | < LOD | 2.62 | 1 | AM |
| 662 Cottage Ave E | 20 | 1/17/2012 12:23 | 1 | Living Room | UNIT 1 | A | WALL | DRYWALL | FAIR | WHITE | Neg | < LOD | < LOD | < LOD | 1.89 | 1 | AM |
| 662 Cottage Ave E | 21 | 1/17/2012 12:24 | 1 | Living Room | UNIT 1 | B | WALL | DRYWALL | FAIR | WHITE | Neg | < LOD | < LOD | < LOD | 3.19 | 1.74 | AM |
| 662 Cottage Ave E | 22 | 1/17/2012 12:24 | 1 | Living Room | UNIT 1 | C | WALL | DRYWALL | FAIR | WHITE | Neg | < LOD | < LOD | < LOD | 2.46 | 3.68 | AM |
| 662 Cottage Ave E | 23 | 1/17/2012 12:24 | 1 | Living Room | UNIT 1 | D | WALL | DRYWALL | FAIR | WHITE | Neg | < LOD | < LOD | < LOD | 3.04 | 1 | AM |
| 662 Cottage Ave E | 24 | 1/17/2012 12:25 | 1 | Living Room | UNIT 1 | D | RADIATOR | METAL | FAIR | WHITE | Neg | < LOD | < LOD | < LOD | 2.32 | 2.06 | AM |
| 662 Cottage Ave E | 25 | 1/17/2012 12:26 | 1 | Living Room | UNIT 1 | | FLOOR | WOOD | FAIR | varnish | Neg | 0.3 | 0.3 | < LOD | 3.76 | 3.15 | AM |
| 662 Cottage Ave E | 26 | 1/17/2012 12:27 | 1 | Living Room | UNIT 1 | A | BASEBOARD | WOOD | FAIR | varnish | Neg | < LOD | < LOD | < LOD | 2.18 | 1 | AM |
| 662 Cottage Ave E | 27 | 1/17/2012 12:27 | 1 | Living Room | UNIT 1 | D | window casing | WOOD | FAIR | varnish | Neg | < LOD | < LOD | < LOD | 2.17 | 1 | AM |
| 662 Cottage Ave E | 28 | 1/17/2012 12:28 | 1 | Living Room | UNIT 1 | D | sash | WOOD | FAIR | varnish | Neg | < LOD | < LOD | < LOD | 2.02 | 1 | AM |
| 662 Cottage Ave E | 29 | 1/17/2012 12:31 | 1 | Living Room | UNIT 1 | D | sash | WOOD | FAIR | varnish | Null | 1 | 0.09 | 1 | 45.1 | 10 | AM |
| 662 Cottage Ave E | 30 | 1/17/2012 12:32 | 1 | Living Room | UNIT 1 | C | DOOR | WOOD | FAIR | varnish | Neg | < LOD | < LOD | < LOD | 2.02 | 1 | AM |
| 662 Cottage Ave E | 31 | 1/17/2012 12:32 | 1 | Living Room | UNIT 1 | C | dr casing | WOOD | FAIR | varnish | Neg | < LOD | < LOD | < LOD | 2.18 | 1 | AM |
| 662 Cottage Ave E | 32 | 1/17/2012 12:32 | 1 | Living Room | UNIT 1 | C | DOOR casing | WOOD | FAIR | varnish | Neg | < LOD | < LOD | < LOD | 2.16 | 1 | AM |
| 662 Cottage Ave E | 33 | 1/17/2012 12:33 | 1 | Living Room | UNIT 1 | A | cl dr | WOOD | FAIR | varnish | Neg | < LOD | < LOD | < LOD | 3.32 | 1 | AM |
| 662 Cottage Ave E | 34 | 1/17/2012 12:33 | 1 | Living Room | UNIT 1 | A | cl dr casing | WOOD | FAIR | varnish | Neg | < LOD | < LOD | < LOD | 2.17 | 1 | AM |
| 662 Cottage Ave E | 35 | 1/17/2012 12:34 | 1 | Living Room | UNIT 1 | A | cl shelf | WOOD | FAIR | WHITE | Neg | < LOD | < LOD | < LOD | 3.19 | 1 | AM |
| 662 Cottage Ave E | 36 | 1/17/2012 12:34 | 1 | Living Room | UNIT 1 | A | support | WOOD | FAIR | WHITE | Neg | < LOD | < LOD | < LOD | 2.18 | 1 | AM |

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St. Paul MN

| Site | XRF # | Date/Time | Floor | Room | Unit # | Side | Component | Substrate | Condition | Color | Results | PbC | PbL | PbK | Duration | Depth | Insp |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 662 Cottage Ave E | 37 | 1/17/2012 12:34 | 1 | Living Room | UNIT 1 | A | cl wall | DRYWALL | FAIR | PINK | Neg | < LOD | < LOD | < LOD | 2.17 | 1 | AM |
| 662 Cottage Ave E | 38 | 1/17/2012 12:35 | 1 | BATHROOM | UNIT 1 | A | DOOR | WOOD | INTACT | varnish | Neg | < LOD | < LOD | < LOD | 2.18 | 1 | AM |
| 662 Cottage Ave E | 39 | 1/17/2012 12:36 | 1 | BATHROOM | UNIT 1 | A | DOOR | WOOD | INTACT | grey | Neg | < LOD | < LOD | < LOD | 2.03 | 1.53 | AM |
| 662 Cottage Ave E | 40 | 1/17/2012 12:36 | 1 | BATHROOM | UNIT 1 | B | window casing | WOOD | INTACT | grey | Neg | < LOD | < LOD | < LOD | 2.47 | 2.75 | AM |
| 662 Cottage Ave E | 41 | 1/17/2012 12:37 | 1 | BATHROOM | UNIT 1 | B | sash | WOOD | INTACT | grey | Neg | < LOD | < LOD | < LOD | 2.18 | 1 | AM |
| 662 Cottage Ave E | 42 | 1/17/2012 12:37 | 1 | BATHROOM | UNIT 1 | B | BASEBOARD | vinyl | INTACT | grey | Neg | < LOD | < LOD | < LOD | 2.61 | 1.72 | AM |
| 662 Cottage Ave E | 43 | 1/17/2012 12:38 | 1 | BATHROOM | UNIT 1 | | FLOOR | vinyl | INTACT | grey | Neg | < LOD | < LOD | < LOD | 2.75 | 1.62 | AM |
| 662 Cottage Ave E | 44 | 1/17/2012 12:38 | 1 | BATHROOM | UNIT 1 | B | casing tub | WOOD | INTACT | grey | Neg | < LOD | < LOD | < LOD | 2.02 | 1 | AM |
| 662 Cottage Ave E | 45 | 1/17/2012 12:39 | 1 | BATHROOM | UNIT 1 | A | cl dr | WOOD | INTACT | grey | Neg | < LOD | < LOD | < LOD | 2.18 | 1.67 | AM |
| 662 Cottage Ave E | 46 | 1/17/2012 12:39 | 1 | BATHROOM | UNIT 1 | A | cl casing | WOOD | INTACT | grey | Neg | < LOD | < LOD | < LOD | 2.18 | 1 | AM |
| 662 Cottage Ave E | 47 | 1/17/2012 12:39 | 1 | BATHROOM | UNIT 1 | A | cl wall | DRYWALL | INTACT | grey | Neg | < LOD | < LOD | < LOD | 3.04 | 1 | AM |
| 662 Cottage Ave E | 48 | 1/17/2012 12:40 | 1 | BATHROOM | UNIT 1 | A | WALL | DRYWALL | INTACT | grey | Neg | < LOD | < LOD | < LOD | 2.17 | 2.01 | AM |
| 662 Cottage Ave E | 49 | 1/17/2012 12:40 | 1 | BATHROOM | UNIT 1 | B | WALL | DRYWALL | FAIR | grey | Neg | < LOD | < LOD | < LOD | 2.46 | 1.16 | AM |
| 662 Cottage Ave E | 50 | 1/17/2012 12:40 | 1 | BATHROOM | UNIT 1 | C | WALL | DRYWALL | FAIR | grey | Neg | < LOD | < LOD | < LOD | 2.18 | 1 | AM |
| 662 Cottage Ave E | 51 | 1/17/2012 12:41 | 1 | BATHROOM | UNIT 1 | D | WALL | DRYWALL | FAIR | grey | Neg | < LOD | < LOD | < LOD | 2.89 | 1 | AM |
| 662 Cottage Ave E | 52 | 1/17/2012 12:41 | 1 | BATHROOM | UNIT 1 | | CEILING | DRYWALL | FAIR | WHITE | Neg | < LOD | < LOD | < LOD | 1.88 | 10 | AM |
| 662 Cottage Ave E | 53 | 1/17/2012 12:42 | 1 | BATHROOM | UNIT 1 | | CEILING | DRYWALL | FAIR | WHITE | Neg | < LOD | < LOD | < LOD | 2.17 | 1 | AM |
| 662 Cottage Ave E | 54 | 1/17/2012 12:42 | 1 | BATHROOM | UNIT 1 | D | CABINET | WOOD | FAIR | WHITE | Neg | < LOD | < LOD | < LOD | 2.16 | 1.07 | AM |
| 662 Cottage Ave E | 55 | 1/17/2012 12:42 | 1 | BATHROOM | UNIT 1 | C | RADIATOR | METAL | FAIR | PINK | Neg | < LOD | < LOD | < LOD | 2.03 | 1 | AM |
| 662 Cottage Ave E | 56 | 1/17/2012 12:44 | 1 | BEDROOM | UNIT 1 | A | RADIATOR | METAL | FAIR | BROWN | Neg | < LOD | < LOD | < LOD | 2.33 | 6.58 | AM |
| 662 Cottage Ave E | 57 | 1/17/2012 12:45 | 1 | BEDROOM | UNIT 1 | C | DOOR | WOOD | FAIR | varnish | Neg | < LOD | < LOD | < LOD | 3.05 | 1.69 | AM |
| 662 Cottage Ave E | 58 | 1/17/2012 12:45 | 1 | BEDROOM | UNIT 1 | C | DOOR casing | WOOD | FAIR | WHITE | Neg | < LOD | < LOD | < LOD | 3.19 | 1 | AM |
| 662 Cottage Ave E | 59 | 1/17/2012 12:46 | 1 | BEDROOM | UNIT 1 | C | BASEBOARD | WOOD | FAIR | WHITE | Neg | < LOD | < LOD | < LOD | 2.04 | 1.48 | AM |
| 662 Cottage Ave E | 60 | 1/17/2012 12:46 | 1 | BEDROOM | UNIT 1 | A | window casing | WOOD | FAIR | WHITE | Neg | < LOD | < LOD | < LOD | 3.19 | 1.24 | AM |
| 662 Cottage Ave E | 61 | 1/17/2012 12:46 | 1 | BEDROOM | UNIT 1 | A | sash | WOOD | FAIR | WHITE | Neg | < LOD | < LOD | < LOD | 2.17 | 1 | AM |
| 662 Cottage Ave E | 62 | 1/17/2012 12:47 | 1 | BEDROOM | UNIT 1 | D | CABINET | WOOD | FAIR | WHITE | Neg | < LOD | < LOD | < LOD | 2.17 | 1 | AM |
| 662 Cottage Ave E | 63 | 1/17/2012 12:47 | 1 | BEDROOM | UNIT 1 | D | CABINET | WOOD | FAIR | WHITE | Neg | < LOD | < LOD | < LOD | 2.46 | 1 | AM |
| 662 Cottage Ave E | 64 | 1/17/2012 12:47 | 1 | BEDROOM | UNIT 1 | D | cl dr | WOOD | FAIR | WHITE | Neg | < LOD | < LOD | < LOD | 2.02 | 1 | AM |
| 662 Cottage Ave E | 65 | 1/17/2012 12:48 | 1 | BEDROOM | UNIT 1 | D | cl dr casing | WOOD | FAIR | WHITE | Neg | < LOD | < LOD | < LOD | 2.17 | 1 | AM |
| 662 Cottage Ave E | 66 | 1/17/2012 12:48 | 1 | BEDROOM | UNIT 1 | D | cl shelf | WOOD | FAIR | WHITE | Neg | < LOD | < LOD | < LOD | 2.17 | 1 | AM |
| 662 Cottage Ave E | 67 | 1/17/2012 12:48 | 1 | BEDROOM | UNIT 1 | D | support | WOOD | FAIR | PINK | Neg | < LOD | < LOD | < LOD | 2.18 | 1 | AM |
| 662 Cottage Ave E | 68 | 1/17/2012 12:48 | 1 | BEDROOM | UNIT 1 | D | CLOSET flr | WOOD | FAIR | PINK | Neg | < LOD | < LOD | < LOD | 2.02 | 1 | AM |
| 662 Cottage Ave E | 69 | 1/17/2012 12:49 | 1 | BEDROOM | UNIT 1 | D | CLOSET wall | DRYWALL | FAIR | PINK | Neg | < LOD | < LOD | < LOD | 2.17 | 1 | AM |
| 662 Cottage Ave E | 70 | 1/17/2012 12:49 | 1 | BEDROOM | UNIT 1 | A | WALL | DRYWALL | FAIR | BROWN | Neg | < LOD | < LOD | < LOD | 2.46 | 1 | AM |
| 662 Cottage Ave E | 71 | 1/17/2012 12:50 | 1 | BEDROOM | UNIT 1 | B | WALL | DRYWALL | FAIR | BROWN | Neg | < LOD | < LOD | < LOD | 2.32 | 1 | AM |
| 662 Cottage Ave E | 72 | 1/17/2012 12:50 | 1 | BEDROOM | UNIT 1 | C | WALL | DRYWALL | FAIR | BROWN | Neg | < LOD | < LOD | < LOD | 2.32 | 1 | AM |
| 662 Cottage Ave E | 73 | 1/17/2012 12:50 | 1 | BEDROOM | UNIT 1 | D | WALL | DRYWALL | FAIR | BROWN | Null | < LOD | < LOD | < LOD | 0.14 | 1 | AM |
| 662 Cottage Ave E | 74 | 1/17/2012 12:50 | 1 | BEDROOM | UNIT 1 | D | WALL | DRYWALL | FAIR | BROWN | Neg | < LOD | < LOD | < LOD | 3.04 | 7.32 | AM |
| 662 Cottage Ave E | 75 | 1/17/2012 12:51 | 1 | BEDROOM | UNIT 1 | | CEILING | DRYWALL | FAIR | WHITE | Neg | < LOD | < LOD | < LOD | 2.74 | 1.86 | AM |
| 662 Cottage Ave E | 76 | 1/17/2012 12:51 | 1 | BEDROOM | UNIT 1 | | FLOOR | tile | FAIR | BEIGE | Neg | < LOD | < LOD | < LOD | 2.46 | 1 | AM |

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662 Cottage Ave E
St. Paul MN

| Site | XRF # | Date/Time | Floor | Room | Unit # | Side | Component | Substrate | Condition | Color | Results | PbC | PbL | PbK | Duration | Depth | Insp |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 662 Cottage Ave E | 77 | 1/17/2012 12:52 | 1 | KITCHEN | UNIT 1 | | FLOOR | tile | FAIR | BROWN | Neg | < LOD | < LOD | < LOD | 2.61 | 1.7 | AM |
| 662 Cottage Ave E | 78 | 1/17/2012 12:53 | 1 | KITCHEN | UNIT 1 | C | WALL | tile | INTACT | WHITE | POS | 2.5 | 2.5 | < LOD | 2.04 | 2.21 | AM |
| 662 Cottage Ave E | 79 | 1/17/2012 12:53 | 1 | KITCHEN | UNIT 1 | C | WALL | tile | INTACT | WHITE | POS | 2.2 | 2.2 | < LOD | 2.16 | 1.97 | AM |
| 662 Cottage Ave E | 80 | 1/17/2012 12:54 | 1 | KITCHEN | UNIT 1 | A | WALL | DRYWALL | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 2.62 | 1.05 | AM |
| 662 Cottage Ave E | 81 | 1/17/2012 12:54 | 1 | KITCHEN | UNIT 1 | B | WALL | DRYWALL | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 2.91 | 1 | AM |
| 662 Cottage Ave E | 82 | 1/17/2012 12:54 | 1 | KITCHEN | UNIT 1 | D | WALL | DRYWALL | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 2.32 | 1 | AM |
| 662 Cottage Ave E | 83 | 1/17/2012 12:55 | 1 | KITCHEN | UNIT 1 | D | DOOR | METAL | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 2.18 | 1 | AM |
| 662 Cottage Ave E | 84 | 1/17/2012 12:56 | 1 | KITCHEN | UNIT 1 | D | DOOR casing | WOOD | POOR | varnish | Neg | < LOD | < LOD | < LOD | 2.33 | 2.31 | AM |
| 662 Cottage Ave E | 85 | 1/17/2012 12:56 | 1 | KITCHEN | UNIT 1 | A | DOOR casing | WOOD | POOR | varnish | Neg | < LOD | < LOD | < LOD | 2.03 | 1 | AM |
| 662 Cottage Ave E | 86 | 1/17/2012 12:56 | 1 | KITCHEN | UNIT 1 | B | BASEBOARD | WOOD | POOR | varnish | Neg | < LOD | < LOD | < LOD | 2.18 | 1.02 | AM |
| 662 Cottage Ave E | 87 | 1/17/2012 12:57 | 1 | KITCHEN | UNIT 1 | C | CABINET | WOOD | POOR | varnish | Neg | < LOD | < LOD | < LOD | 2.18 | 1.92 | AM |
| 662 Cottage Ave E | 88 | 1/17/2012 12:57 | 1 | KITCHEN | UNIT 1 | C | CABINET | WOOD | POOR | varnish | Neg | < LOD | < LOD | < LOD | 3.19 | 1 | AM |
| 662 Cottage Ave E | 89 | 1/17/2012 12:57 | 1 | KITCHEN | UNIT 1 | D | window casing | WOOD | POOR | varnish | Neg | < LOD | < LOD | < LOD | 2.17 | 1 | AM |
| 662 Cottage Ave E | 90 | 1/17/2012 12:58 | 1 | KITCHEN | UNIT 1 | D | sash | WOOD | POOR | varnish | Neg | < LOD | < LOD | < LOD | 2.17 | 1.31 | AM |
| 662 Cottage Ave E | 91 | 1/17/2012 12:58 | 1 | KITCHEN | UNIT 1 | | CEILING | DRYWALL | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 2.32 | 1 | AM |
| 662 Cottage Ave E | 92 | 1/17/2012 12:59 | 0 | STAIR | UNIT 1 | | CEILING | DRYWALL | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 3.04 | 1 | AM |
| 662 Cottage Ave E | 93 | 1/17/2012 12:59 | 0 | STAIR | UNIT 1 | B | WINDOW | WOOD | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 3.18 | 1 | AM |
| 662 Cottage Ave E | 94 | 1/17/2012 13:00 | 0 | STAIR | UNIT 1 | B | window casing | WOOD | POOR | WHITE | Neg | 0.5 | 0.5 | < LOD | 3.77 | 2.94 | AM |
| 662 Cottage Ave E | 95 | 1/17/2012 13:00 | 0 | STAIR | UNIT 1 | B | Window sash | WOOD | POOR | WHITE | Null | < LOD | < LOD | < LOD | 0.87 | 2.7 | AM |
| 662 Cottage Ave E | 96 | 1/17/2012 13:00 | 0 | STAIR | UNIT 1 | B | WINDOW | WOOD | POOR | WHITE | Null | < LOD | < LOD | < LOD | 0.72 | 1.04 | AM |
| 662 Cottage Ave E | 97 | 1/17/2012 13:00 | 0 | STAIR | UNIT 1 | B | WINDOW | WOOD | POOR | WHITE | Null | < LOD | < LOD | < LOD | 0.43 | 1.68 | AM |
| 662 Cottage Ave E | 98 | 1/17/2012 13:00 | 0 | STAIR | UNIT 1 | B | WINDOW | WOOD | POOR | WHITE | POS | 2.8 | 2.8 | 3.1 | 2.02 | 3.02 | AM |
| 662 Cottage Ave E | 99 | 1/17/2012 13:01 | 0 | STAIR | UNIT 1 | B | Wndw Trough | METAL | INTACT | WHITE | POS | 8.2 | < LOD | 8.2 | 1.88 | 10 | AM |
| 662 Cottage Ave E | 100 | 1/17/2012 13:01 | 0 | STAIR | UNIT 1 | B | BOOKCASE | WOOD | FAIR | WHITE | Neg | < LOD | < LOD | < LOD | 2.47 | 1.78 | AM |
| 662 Cottage Ave E | 101 | 1/17/2012 13:02 | 0 | STAIR | UNIT 1 | D | DOOR casing | WOOD | FAIR | varnish | Neg | < LOD | < LOD | < LOD | 2.17 | 1 | AM |
| 662 Cottage Ave E | 102 | 1/17/2012 13:02 | 0 | STAIR | UNIT 1 | D | BASEBOARD | WOOD | FAIR | WHITE | Neg | < LOD | < LOD | < LOD | 2.32 | 1 | AM |
| 662 Cottage Ave E | 103 | 1/17/2012 13:03 | 0 | STAIR | UNIT 1 | D | BASEBOARD | WOOD | FAIR | grey | Neg | < LOD | < LOD | < LOD | 2.02 | 1 | AM |
| 662 Cottage Ave E | 104 | 1/17/2012 13:03 | 0 | STAIR | UNIT 1 | D | handrail | WOOD | FAIR | grey | Neg | < LOD | < LOD | < LOD | 2.18 | 1 | AM |
| 662 Cottage Ave E | 105 | 1/17/2012 13:04 | 0 | STAIR | UNIT 1 | A | TREAD | WOOD | POOR | grey | Neg | < LOD | < LOD | < LOD | 2.03 | 1.79 | AM |
| 662 Cottage Ave E | 106 | 1/17/2012 13:04 | 0 | STAIR | UNIT 1 | A | stringer | WOOD | POOR | grey | Neg | < LOD | < LOD | < LOD | 1.3 | 1 | AM |
| 662 Cottage Ave E | 107 | 1/17/2012 13:05 | 0 | STAIR | UNIT 1 | A | WALL | DRYWALL | POOR | TAN | Neg | < LOD | < LOD | < LOD | 2.17 | 1 | AM |
| 662 Cottage Ave E | 108 | 1/17/2012 13:05 | 0 | STAIR | UNIT 1 | B | WALL | DRYWALL | POOR | TAN | Neg | < LOD | < LOD | < LOD | 2.18 | 1 | AM |
| 662 Cottage Ave E | 109 | 1/17/2012 13:05 | 0 | STAIR | UNIT 1 | D | WALL | DRYWALL | POOR | TAN | Neg | < LOD | < LOD | < LOD | 2.02 | 1.27 | AM |
| 662 Cottage Ave E | 110 | 1/17/2012 13:06 | 0 | STAIR | UNIT 1 | B | WALL | CONCRETE | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 2.32 | 1 | AM |
| 662 Cottage Ave E | 111 | 1/17/2012 13:07 | 0 | | UNIT 1 | A | WALL | CONCRETE | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 3.76 | 5.15 | AM |
| 662 Cottage Ave E | 112 | 1/17/2012 13:07 | 0 | | UNIT 1 | B | WALL | CONCRETE | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 2.74 | 1 | AM |
| 662 Cottage Ave E | 113 | 1/17/2012 13:08 | 0 | | UNIT 1 | C | WALL | CONCRETE | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 3.04 | 1.51 | AM |
| 662 Cottage Ave E | 114 | 1/17/2012 13:08 | 0 | | UNIT 1 | D | WALL | CONCRETE | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 2.75 | 3.58 | AM |
| 662 Cottage Ave E | 115 | 1/17/2012 13:09 | 0 | | UNIT 1 | C | CHIMNEY | brick | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 2.6 | 1 | AM |
| 662 Cottage Ave E | 116 | 1/17/2012 13:09 | 0 | | UNIT 1 | C | CHIMNEY | METAL | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 2.17 | 1 | AM |

St. Croix Environmental
662 Cottage Ave E
St. Paul MN

| Site | XRF # | Date/Time | Floor | Room | Unit # | Side | Component | Substrate | Condition | Color | Results | PbC | PbL | PbK | Duration | Depth | Insp |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 662 Cottage Ave E | 117 | 1/17/2012 13:09 | 0 | | UNIT 1 | C | WINDOW | METAL | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 3.18 | 1 | AM |
| 662 Cottage Ave E | 118 | 1/17/2012 13:10 | 0 | | UNIT 1 | C | WINDOW | METAL | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 2.17 | 1 | AM |
| 662 Cottage Ave E | 119 | 1/17/2012 13:10 | 0 | | UNIT 1 | | CEILING | WOOD | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 1.88 | 1 | AM |
| 662 Cottage Ave E | 120 | 1/17/2012 13:10 | 0 | | UNIT 1 | | CEILING | WOOD | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 1.88 | 1 | AM |
| 662 Cottage Ave E | 121 | 1/17/2012 13:11 | 0 | | UNIT 1 | C | Ceiling Sup Beam | WOOD | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 2.03 | 1 | AM |
| 662 Cottage Ave E | 122 | 1/17/2012 13:12 | 0 | | UNIT 1 | A | COLUMN | WOOD | POOR | grey | Neg | 0.3 | 0.3 | < LOD | 2.33 | 1.53 | AM |
| 662 Cottage Ave E | 123 | 1/17/2012 13:12 | 0 | | UNIT 1 | A | COLUMN | WOOD | POOR | grey | Neg | 0.25 | 0.25 | < LOD | 2.18 | 1.25 | AM |
| 662 Cottage Ave E | 124 | 1/17/2012 13:13 | | | | | calibrate | | | | POS | 1.2 | 1.2 | < LOD | 7.81 | 1.21 | AM |
| 662 Cottage Ave E | 125 | 1/17/2012 13:46 | 2 | STAIR front | | A | DOOR | WOOD | POOR | varnish | Neg | < LOD | < LOD | < LOD | 2.18 | 1 | AM |
| 662 Cottage Ave E | 126 | 1/17/2012 13:46 | 2 | STAIR front | | A | DOOR casing | WOOD | POOR | BROWN | Neg | < LOD | < LOD | < LOD | 2.03 | 1 | AM |
| 662 Cottage Ave E | 127 | 1/17/2012 13:46 | 2 | STAIR front | | A | DOOR jamb | WOOD | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 2.16 | 1 | AM |
| 662 Cottage Ave E | 128 | 1/17/2012 13:46 | 2 | STAIR front | | A | threshold | WOOD | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 2.17 | 2.11 | AM |
| 662 Cottage Ave E | 129 | 1/17/2012 13:47 | 2 | STAIR front | | B | BASEBOARD | WOOD | POOR | BROWN | Neg | < LOD | < LOD | < LOD | 3.19 | 3.6 | AM |
| 662 Cottage Ave E | 130 | 1/17/2012 13:47 | 2 | STAIR front | | B | BASEBOARD | WOOD | POOR | BROWN | Neg | < LOD | < LOD | < LOD | 2.18 | 1 | AM |
| 662 Cottage Ave E | 131 | 1/17/2012 13:48 | 2 | STAIR front | | D | BASEBOARD | WOOD | POOR | BROWN | POS | 8.4 | 10.1 | 8.4 | 1.6 | 2.66 | AM |
| 662 Cottage Ave E | 132 | 1/17/2012 13:48 | 2 | STAIR front | | D | handrail | WOOD | POOR | BROWN | Neg | < LOD | < LOD | < LOD | 2.18 | 1 | AM |
| 662 Cottage Ave E | 133 | 1/17/2012 13:48 | 2 | STAIR front | | C | DOOR | WOOD | POOR | BROWN | Neg | < LOD | < LOD | < LOD | 1.73 | 1 | AM |
| 662 Cottage Ave E | 134 | 1/17/2012 13:49 | 2 | STAIR front | | C | DOOR casing | WOOD | POOR | BROWN | Neg | < LOD | < LOD | < LOD | 2.03 | 1 | AM |
| 662 Cottage Ave E | 135 | 1/17/2012 13:49 | 2 | STAIR front | | A | newel pst | WOOD | POOR | BROWN | Neg | < LOD | < LOD | < LOD | 2.18 | 1 | AM |
| 662 Cottage Ave E | 136 | 1/17/2012 13:50 | 2 | STAIR front | | A | cl dr | WOOD | POOR | BROWN | Neg | < LOD | < LOD | < LOD | 2.17 | 1 | AM |
| 662 Cottage Ave E | 137 | 1/17/2012 13:50 | 2 | STAIR front | | A | cl dr casing | WOOD | POOR | BROWN | Neg | < LOD | < LOD | < LOD | 2.17 | 1 | AM |
| 662 Cottage Ave E | 138 | 1/17/2012 13:50 | 2 | STAIR front | | A | cl shelf | WOOD | POOR | BROWN | Neg | < LOD | < LOD | < LOD | 2.17 | 1 | AM |
| 662 Cottage Ave E | 139 | 1/17/2012 13:50 | 2 | STAIR front | | A | cl wall | DRYWALL | INTACT | WHITE | Neg | < LOD | < LOD | < LOD | 2.46 | 1 | AM |
| 662 Cottage Ave E | 140 | 1/17/2012 13:51 | 2 | STAIR front | | A | WALL | WOOD | INTACT | WHITE | Neg | < LOD | < LOD | < LOD | 2.17 | 1 | AM |
| 662 Cottage Ave E | 141 | 1/17/2012 13:51 | 2 | STAIR front | | B | WALL | DRYWALL | INTACT | WHITE | Neg | < LOD | < LOD | < LOD | 2.31 | 1 | AM |
| 662 Cottage Ave E | 142 | 1/17/2012 13:52 | 2 | STAIR front | | C | WALL | DRYWALL | INTACT | WHITE | Neg | < LOD | < LOD | < LOD | 2.17 | 1 | AM |
| 662 Cottage Ave E | 143 | 1/17/2012 13:52 | 2 | STAIR front | | D | WALL | DRYWALL | INTACT | WHITE | Neg | < LOD | < LOD | < LOD | 2.17 | 1 | AM |
| 662 Cottage Ave E | 144 | 1/17/2012 13:52 | 2 | STAIR front | | | CEILING | DRYWALL | INTACT | WHITE | Neg | < LOD | < LOD | < LOD | 2.61 | 1 | AM |
| 662 Cottage Ave E | 145 | 1/17/2012 13:53 | 2 | Living Room | unit 2 | | CEILING | DRYWALL | INTACT | WHITE | Neg | < LOD | < LOD | < LOD | 2.32 | 1 | AM |
| 662 Cottage Ave E | 146 | 1/17/2012 13:54 | 2 | Living Room | unit 2 | A | WALL | DRYWALL | INTACT | PINK | Neg | < LOD | < LOD | < LOD | 2.17 | 1 | AM |
| 662 Cottage Ave E | 147 | 1/17/2012 13:54 | 2 | Living Room | unit 2 | B | WALL | DRYWALL | INTACT | PINK | Neg | < LOD | < LOD | < LOD | 2.46 | 1 | AM |
| 662 Cottage Ave E | 148 | 1/17/2012 13:55 | 2 | Living Room | unit 2 | C | WALL | DRYWALL | FAIR | PINK | Neg | < LOD | < LOD | < LOD | 2.32 | 1 | AM |
| 662 Cottage Ave E | 149 | 1/17/2012 13:55 | 2 | Living Room | unit 2 | D | WALL | DRYWALL | FAIR | PINK | Null | < LOD | < LOD | < LOD | 0.44 | 1 | AM |
| 662 Cottage Ave E | 150 | 1/17/2012 13:55 | 2 | Living Room | unit 2 | D | WALL | DRYWALL | FAIR | PINK | Neg | < LOD | < LOD | < LOD | 2.32 | 1 | AM |
| 662 Cottage Ave E | 151 | 1/17/2012 13:55 | 2 | Living Room | unit 2 | D | RADIATOR | METAL | FAIR | PINK | Neg | < LOD | < LOD | < LOD | 2.32 | 1 | AM |
| 662 Cottage Ave E | 152 | 1/17/2012 13:57 | 2 | Living Room | unit 2 | A | DOOR | WOOD | FAIR | BROWN | Neg | < LOD | < LOD | < LOD | 2.32 | 1 | AM |
| 662 Cottage Ave E | 153 | 1/17/2012 13:57 | 2 | Living Room | unit 2 | A | dr casing | WOOD | FAIR | BROWN | Neg | < LOD | < LOD | < LOD | 2.17 | 1 | AM |
| 662 Cottage Ave E | 154 | 1/17/2012 13:57 | 2 | Living Room | unit 2 | A | BASEBOARD | WOOD | FAIR | BROWN | Neg | < LOD | < LOD | < LOD | 2.17 | 1 | AM |
| 662 Cottage Ave E | 155 | 1/17/2012 13:58 | 2 | Living Room | unit 2 | D | window casing | WOOD | FAIR | BROWN | Neg | < LOD | < LOD | < LOD | 2.17 | 1 | AM |
| 662 Cottage Ave E | 156 | 1/17/2012 13:58 | 2 | Living Room | unit 2 | D | sash | WOOD | FAIR | BROWN | Neg | < LOD | < LOD | < LOD | 2.18 | 1 | AM |

St. Croix Environmental
662 Cottage Ave E
St. Paul MN

| Site | XRF # | Date/Time | Floor | Room | Unit # | Side | Component | Substrate | Condition | Color | Results | PbC | PbL | PbK | Duration | Depth | Insp |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 662 Cottage Ave E | 157 | 1/17/2012 14:01 | 2 | Living Room | unit 2 | D | trough | METAL | FAIR | WHITE | Null | 0.9 | 0.5 | 0.9 | 34.2 | 10 | AM |
| 662 Cottage Ave E | 158 | 1/17/2012 14:01 | 2 | Living Room | unit 2 | D | trough | METAL | FAIR | WHITE | Null | < LOD | < LOD | < LOD | 0.29 | 10 | AM |
| 662 Cottage Ave E | 159 | 1/17/2012 14:01 | 2 | Living Room | unit 2 | D | trough | METAL | FAIR | WHITE | Null | < LOD | < LOD | < LOD | 0.73 | 10 | AM |
| 662 Cottage Ave E | 160 | 1/17/2012 14:01 | 2 | Living Room | unit 2 | D | trough | METAL | FAIR | WHITE | POS | 3.7 | 1.1 | 3.7 | 3.18 | 10 | AM |
| 662 Cottage Ave E | 161 | 1/17/2012 14:02 | 2 | BEDROOM 1 | unit 2 | D | trough | WOOD | POOR | WHITE | Null | < LOD | < LOD | < LOD | 0.87 | 3.03 | AM |
| 662 Cottage Ave E | 162 | 1/17/2012 14:03 | 2 | BEDROOM 1 | unit 2 | D | trough | WOOD | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 2.17 | 2.81 | AM |
| 662 Cottage Ave E | 163 | 1/17/2012 14:03 | 2 | BEDROOM 1 | unit 2 | D | trough | WOOD | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 2.31 | 3.64 | AM |
| 662 Cottage Ave E | 164 | 1/17/2012 14:03 | 2 | BEDROOM 1 | unit 2 | D | window casing | WOOD | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 2.18 | 2.79 | AM |
| 662 Cottage Ave E | 165 | 1/17/2012 14:04 | 2 | BEDROOM 1 | unit 2 | A | window casing | WOOD | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 1.59 | 1.05 | AM |
| 662 Cottage Ave E | 166 | 1/17/2012 14:04 | 2 | BEDROOM 1 | unit 2 | A | sash | WOOD | INTACT | BROWN | Neg | < LOD | < LOD | < LOD | 2.18 | 1 | AM |
| 662 Cottage Ave E | 167 | 1/17/2012 14:04 | 2 | BEDROOM 1 | unit 2 | A | trough | WOOD | INTACT | BROWN | Neg | < LOD | < LOD | < LOD | 2.17 | 1.07 | AM |
| 662 Cottage Ave E | 168 | 1/17/2012 14:05 | 2 | BEDROOM 1 | unit 2 | B | BASEBOARD | WOOD | INTACT | BROWN | Null | < LOD | < LOD | < LOD | 0.87 | 1 | AM |
| 662 Cottage Ave E | 169 | 1/17/2012 14:05 | 2 | BEDROOM 1 | unit 2 | B | BASEBOARD | WOOD | INTACT | BROWN | Neg | < LOD | < LOD | < LOD | 2.16 | 1 | AM |
| 662 Cottage Ave E | 170 | 1/17/2012 14:05 | 2 | BEDROOM 1 | unit 2 | C | DOOR | WOOD | INTACT | BROWN | POS | 2.8 | 1.3 | 2.8 | 2.6 | 2 | AM |
| 662 Cottage Ave E | 171 | 1/17/2012 14:06 | 2 | BEDROOM 1 | unit 2 | C | dr casing | WOOD | INTACT | BROWN | Neg | < LOD | < LOD | < LOD | 2.17 | 1 | AM |
| 662 Cottage Ave E | 172 | 1/17/2012 14:06 | 2 | BEDROOM 1 | unit 2 | C | cl dr | WOOD | INTACT | BROWN | Neg | < LOD | < LOD | < LOD | 2.17 | 1 | AM |
| 662 Cottage Ave E | 173 | 1/17/2012 14:06 | 2 | BEDROOM 1 | unit 2 | C | cl dr casing | WOOD | INTACT | BROWN | Neg | < LOD | < LOD | < LOD | 2.02 | 1 | AM |
| 662 Cottage Ave E | 174 | 1/17/2012 14:06 | 2 | BEDROOM 1 | unit 2 | C | shelf | WOOD | INTACT | BROWN | Neg | < LOD | < LOD | < LOD | 3.18 | 1 | AM |
| 662 Cottage Ave E | 175 | 1/17/2012 14:07 | 2 | BEDROOM 1 | unit 2 | C | cl wall | DRYWALL | INTACT | WHITE | Neg | < LOD | < LOD | < LOD | 3.05 | 1 | AM |
| 662 Cottage Ave E | 176 | 1/17/2012 14:07 | 2 | BEDROOM 1 | unit 2 | A | WALL | DRYWALL | INTACT | PINK | Neg | < LOD | < LOD | < LOD | 2.17 | 1 | AM |
| 662 Cottage Ave E | 177 | 1/17/2012 14:08 | 2 | BEDROOM 1 | unit 2 | B | WALL | DRYWALL | INTACT | PINK | Neg | < LOD | < LOD | < LOD | 2.32 | 1 | AM |
| 662 Cottage Ave E | 178 | 1/17/2012 14:08 | 2 | BEDROOM 1 | unit 2 | C | WALL | DRYWALL | INTACT | PINK | Neg | < LOD | < LOD | < LOD | 2.76 | 1 | AM |
| 662 Cottage Ave E | 179 | 1/17/2012 14:08 | 2 | BEDROOM 1 | unit 2 | D | WALL | DRYWALL | INTACT | PINK | Neg | < LOD | < LOD | < LOD | 2.9 | 1 | AM |
| 662 Cottage Ave E | 180 | 1/17/2012 14:09 | 2 | BEDROOM 1 | unit 2 | D | RADIATOR | METAL | INTACT | PINK | Neg | < LOD | < LOD | < LOD | 2.17 | 1 | AM |
| 662 Cottage Ave E | 181 | 1/17/2012 14:09 | 2 | BEDROOM 1 | unit 2 | | CEILING | METAL | INTACT | WHITE | Neg | < LOD | < LOD | < LOD | 2.33 | 1.65 | AM |
| 662 Cottage Ave E | 182 | 1/17/2012 14:10 | 2 | BEDROOM 2 | unit 2 | | CEILING | METAL | INTACT | WHITE | Neg | < LOD | < LOD | < LOD | 2.47 | 1.43 | AM |
| 662 Cottage Ave E | 183 | 1/17/2012 14:11 | 2 | BEDROOM 2 | unit 2 | A | WALL | DRYWALL | INTACT | PINK | Neg | < LOD | < LOD | < LOD | 2.61 | 1 | AM |
| 662 Cottage Ave E | 184 | 1/17/2012 14:11 | 2 | BEDROOM 2 | unit 2 | B | WALL | DRYWALL | INTACT | PINK | Neg | < LOD | < LOD | < LOD | 3.33 | 1 | AM |
| 662 Cottage Ave E | 185 | 1/17/2012 14:11 | 2 | BEDROOM 2 | unit 2 | C | WALL | DRYWALL | INTACT | PINK | Neg | < LOD | < LOD | < LOD | 3.19 | 1 | AM |
| 662 Cottage Ave E | 186 | 1/17/2012 14:12 | 2 | BEDROOM 2 | unit 2 | D | WALL | DRYWALL | INTACT | PINK | Neg | < LOD | < LOD | < LOD | 2.32 | 1 | AM |
| 662 Cottage Ave E | 187 | 1/17/2012 14:12 | 2 | BEDROOM 2 | unit 2 | C | DOOR | WOOD | INTACT | BROWN | Neg | < LOD | < LOD | < LOD | 3.19 | 1 | AM |
| 662 Cottage Ave E | 188 | 1/17/2012 14:12 | 2 | BEDROOM 2 | unit 2 | C | dr casing | WOOD | INTACT | BROWN | Neg | < LOD | < LOD | < LOD | 2.16 | 1 | AM |
| 662 Cottage Ave E | 189 | 1/17/2012 14:13 | 2 | BEDROOM 2 | unit 2 | C | BASEBOARD | WOOD | INTACT | BROWN | Neg | < LOD | < LOD | < LOD | 2.03 | 1 | AM |
| 662 Cottage Ave E | 190 | 1/17/2012 14:13 | 2 | BEDROOM 2 | unit 2 | A | window casing | WOOD | INTACT | BROWN | Neg | < LOD | < LOD | < LOD | 2.17 | 3.34 | AM |
| 662 Cottage Ave E | 191 | 1/17/2012 14:13 | 2 | BEDROOM 2 | unit 2 | A | sash | WOOD | INTACT | BROWN | Neg | < LOD | < LOD | < LOD | 2.16 | 1 | AM |
| 662 Cottage Ave E | 192 | 1/17/2012 14:14 | 2 | BEDROOM 2 | unit 2 | A | trough | METAL | INTACT | WHITE | POS | 13.4 | < LOD | 13.4 | 1.89 | 10 | AM |
| 662 Cottage Ave E | 193 | 1/17/2012 14:14 | 2 | BEDROOM 2 | unit 2 | A | RADIATOR | METAL | INTACT | PINK | Neg | < LOD | < LOD | < LOD | 2.17 | 1.94 | AM |
| 662 Cottage Ave E | 194 | 1/17/2012 14:15 | 2 | BEDROOM 2 | unit 2 | A | cl dr | WOOD | INTACT | BROWN | Neg | < LOD | < LOD | < LOD | 1.88 | 1 | AM |
| 662 Cottage Ave E | 195 | 1/17/2012 14:15 | 2 | BEDROOM 2 | unit 2 | A | cl dr casing | WOOD | INTACT | BROWN | Neg | < LOD | < LOD | < LOD | 2.03 | 1 | AM |
| 662 Cottage Ave E | 196 | 1/17/2012 14:15 | 2 | BEDROOM 2 | unit 2 | A | cl shelf | WOOD | INTACT | BROWN | Neg | < LOD | < LOD | < LOD | 2.17 | 1 | AM |

St. Croix Environmental
662 Cottage Ave E
St. Paul MN

| Site | XRF # | Date/Time | Floor | Room | Unit # | Side | Component | Substrate | Condition | Color | Results | PbC | PbL | PbK | Duration | Depth | Insp. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 662 Cottage Ave E | 197 | 1/17/2012 14:15 | 2 | BEDROOM 2 | unit 2 | A | support | WOOD | INTACT | BROWN | Neg | < LOD | < LOD | < LOD | 3.19 | 1 | AM |
| 662 Cottage Ave E | 198 | 1/17/2012 14:16 | 2 | BEDROOM 2 | unit 2 | D | cl wall | DRYWALL | INTACT | WHITE | Neg | < LOD | < LOD | < LOD | 2.18 | 1 | AM |
| 662 Cottage Ave E | 199 | 1/17/2012 14:17 | 2 | BATHROOM | unit 2 | D | DOOR | WOOD | INTACT | BROWN | Neg | < LOD | < LOD | < LOD | 2.17 | 1.18 | AM |
| 662 Cottage Ave E | 200 | 1/17/2012 14:17 | 2 | BATHROOM | unit 2 | D | dr casing | WOOD | INTACT | BROWN | Neg | < LOD | < LOD | < LOD | 3.18 | 1 | AM |
| 662 Cottage Ave E | 201 | 1/17/2012 14:17 | 2 | BATHROOM | unit 2 | D | BASEBOARD | WOOD | INTACT | BROWN | Neg | < LOD | < LOD | < LOD | 2.18 | 1 | AM |
| 662 Cottage Ave E | 202 | 1/17/2012 14:18 | 2 | BATHROOM | unit 2 | B | window casing | WOOD | INTACT | BROWN | Neg | < LOD | < LOD | < LOD | 2.17 | 1 | AM |
| 662 Cottage Ave E | 203 | 1/17/2012 14:18 | 2 | BATHROOM | unit 2 | B | sash | WOOD | FAIR | WHITE | Neg | < LOD | < LOD | < LOD | 2.18 | 1 | AM |
| 662 Cottage Ave E | 204 | 1/17/2012 14:18 | 2 | BATHROOM | unit 2 | B | trough | METAL | FAIR | WHITE | POS | 4.4 | < LOD | 4.4 | 2.46 | 10 | AM |
| 662 Cottage Ave E | 205 | 1/17/2012 14:19 | 2 | BATHROOM | unit 2 | B | RADIATOR | METAL | INTACT | PINK | Neg | < LOD | < LOD | < LOD | 2.02 | 1 | AM |
| 662 Cottage Ave E | 206 | 1/17/2012 14:20 | 2 | BATHROOM | unit 2 | B | tub | METAL | INTACT | WHITE | POS | 6 | 1 | 6 | 2.32 | 2.16 | AM |
| 662 Cottage Ave E | 207 | 1/17/2012 14:20 | 2 | BATHROOM | unit 2 | B | FLOOR | vinyl | INTACT | TAN | Neg | < LOD | < LOD | < LOD | 2.02 | 1 | AM |
| 662 Cottage Ave E | 208 | 1/17/2012 14:20 | 2 | BATHROOM | unit 2 | | FLOOR | tile | INTACT | TAN | POS | 4 | 4 | < LOD | 1.31 | 1.58 | AM |
| 662 Cottage Ave E | 209 | 1/17/2012 14:21 | 2 | BATHROOM | unit 2 | B | WALL | tile | INTACT | WHITE | Neg | < LOD | < LOD | < LOD | 2.03 | 1.34 | AM |
| 662 Cottage Ave E | 210 | 1/17/2012 14:21 | 2 | BATHROOM | unit 2 | B | CABINET | WOOD | INTACT | varnish | Neg | 0.14 | 0.14 | < LOD | 2.04 | 1.14 | AM |
| 662 Cottage Ave E | 211 | 1/17/2012 14:22 | 2 | BATHROOM | unit 2 | A | WALL | DRYWALL | INTACT | PINK | Neg | < LOD | < LOD | < LOD | 2.32 | 1 | AM |
| 662 Cottage Ave E | 212 | 1/17/2012 14:22 | 2 | BATHROOM | unit 2 | B | WALL | DRYWALL | INTACT | PINK | Neg | < LOD | < LOD | < LOD | 2.31 | 1.32 | AM |
| 662 Cottage Ave E | 213 | 1/17/2012 14:23 | 2 | BATHROOM | unit 2 | C | WALL | DRYWALL | INTACT | PINK | Neg | < LOD | < LOD | < LOD | 3.19 | 1 | AM |
| 662 Cottage Ave E | 214 | 1/17/2012 14:23 | 2 | BATHROOM | unit 2 | D | WALL | DRYWALL | INTACT | PINK | Neg | < LOD | < LOD | < LOD | 2.32 | 1 | AM |
| 662 Cottage Ave E | 215 | 1/17/2012 14:23 | 2 | BATHROOM | unit 2 | | CEILING | DRYWALL | INTACT | WHITE | Neg | < LOD | < LOD | < LOD | 2.18 | 1 | AM |
| 662 Cottage Ave E | 216 | 1/17/2012 14:24 | 2 | KITCHEN | unit 2 | | CEILING | DRYWALL | INTACT | WHITE | Neg | < LOD | < LOD | < LOD | 2.6 | 1 | AM |
| 662 Cottage Ave E | 217 | 1/17/2012 14:25 | 2 | KITCHEN | unit 2 | A | WALL | DRYWALL | FAIR | YELLOW | Neg | < LOD | < LOD | < LOD | 2.33 | 1 | AM |
| 662 Cottage Ave E | 218 | 1/17/2012 14:25 | 2 | KITCHEN | unit 2 | B | WALL | DRYWALL | FAIR | YELLOW | Neg | < LOD | < LOD | < LOD | 2.46 | 1 | AM |
| 662 Cottage Ave E | 219 | 1/17/2012 14:26 | 2 | KITCHEN | unit 2 | C | WALL | DRYWALL | FAIR | YELLOW | Neg | < LOD | < LOD | < LOD | 2.02 | 1 | AM |
| 662 Cottage Ave E | 220 | 1/17/2012 14:26 | 2 | KITCHEN | unit 2 | D | WALL | DRYWALL | FAIR | YELLOW | Neg | < LOD | < LOD | < LOD | 1.6 | 1 | AM |
| 662 Cottage Ave E | 221 | 1/17/2012 14:26 | 2 | KITCHEN | unit 2 | D | RADIATOR | METAL | INTACT | YELLOW | Neg | < LOD | < LOD | < LOD | 2.18 | 1 | AM |
| 662 Cottage Ave E | 222 | 1/17/2012 14:27 | 2 | KITCHEN | unit 2 | A | DOOR | WOOD | INTACT | BROWN | Neg | < LOD | < LOD | < LOD | 2.32 | 1 | AM |
| 662 Cottage Ave E | 223 | 1/17/2012 14:27 | 2 | KITCHEN | unit 2 | B | DOOR | METAL | POOR | BROWN | Neg | < LOD | < LOD | < LOD | 2.18 | 1 | AM |
| 662 Cottage Ave E | 224 | 1/17/2012 14:27 | 2 | KITCHEN | unit 2 | B | dr casing | WOOD | POOR | BROWN | Neg | < LOD | < LOD | < LOD | 2.18 | 1 | AM |
| 662 Cottage Ave E | 225 | 1/17/2012 14:28 | 2 | KITCHEN | unit 2 | D | DOOR | WOOD | POOR | BROWN | POS | 9.3 | < LOD | 9.3 | 1.74 | 10 | AM |
| 662 Cottage Ave E | 226 | 1/17/2012 14:28 | 2 | KITCHEN | unit 2 | D | dr casing | WOOD | POOR | BROWN | Neg | < LOD | < LOD | < LOD | 2.32 | 1 | AM |
| 662 Cottage Ave E | 227 | 1/17/2012 14:29 | 2 | KITCHEN | unit 2 | B | BASEBOARD | WOOD | INTACT | BROWN | Neg | < LOD | < LOD | < LOD | 2.17 | 1 | AM |
| 662 Cottage Ave E | 228 | 1/17/2012 14:29 | 2 | KITCHEN | unit 2 | C | window casing | WOOD | INTACT | BROWN | Neg | < LOD | < LOD | < LOD | 2.17 | 1 | AM |
| 662 Cottage Ave E | 229 | 1/17/2012 14:29 | 2 | KITCHEN | unit 2 | C | sash | WOOD | INTACT | BROWN | Neg | < LOD | < LOD | < LOD | 2.17 | 1 | AM |
| 662 Cottage Ave E | 230 | 1/17/2012 14:30 | 2 | KITCHEN | unit 2 | C | CABINET | WOOD | INTACT | BROWN | Neg | 0.14 | 0.14 | < LOD | 2.16 | 1.01 | AM |
| 662 Cottage Ave E | 231 | 1/17/2012 14:30 | 2 | KITCHEN | unit 2 | C | WALL | tile | INTACT | WHITE | Neg | 0.17 | 0.17 | < LOD | 2.18 | 1.33 | AM |
| 662 Cottage Ave E | 232 | 1/17/2012 14:31 | 2 | KITCHEN | unit 2 | C | CLOSET | WOOD | FAIR | BROWN | Neg | < LOD | < LOD | < LOD | 2.31 | 1 | AM |
| 662 Cottage Ave E | 233 | 1/17/2012 14:31 | 2 | KITCHEN | unit 2 | C | CLOSET shelf | WOOD | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 2.18 | 1 | AM |
| 662 Cottage Ave E | 234 | 1/17/2012 14:31 | 2 | KITCHEN | unit 2 | C | CLOSET shelf | WOOD | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 2.17 | 1 | AM |
| 662 Cottage Ave E | 235 | 1/17/2012 14:32 | 2 | KITCHEN | unit 2 | C | CLOSET window | WOOD | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 2.18 | 1 | AM |
| 662 Cottage Ave E | 236 | 1/17/2012 14:32 | 2 | KITCHEN | unit 2 | C | CLOSET window | WOOD | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 2.32 | 1 | AM |

St. Croix Environmental
662 Cottage Ave E
St. Paul MN

| Site | XRF # | Date/Time | Floor | Room | Unit # | Side | Component | Substrate | Condition | Color | Results | PbC | PbL | PbK | Duration | Depth | Insp. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 662 Cottage Ave E | 237 | 1/17/2012 14:32 | 2 | KITCHEN | unit 2 | C | CLOSET window | WOOD | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 2.03 | 1 | AM |
| 662 Cottage Ave E | 238 | 1/17/2012 14:35 | 2 | PORCH | unit 2 | B | DOOR | WOOD | POOR | BLUE | POS | 1.4 | 1.4 | 1.5 | 3.62 | 2.19 | AM |
| 662 Cottage Ave E | 239 | 1/17/2012 14:36 | 2 | PORCH | unit 2 | B | dr casing | WOOD | POOR | BLUE | POS | 13.2 | 7.5 | 13.2 | 1.88 | 3.46 | AM |
| 662 Cottage Ave E | 240 | 1/17/2012 14:36 | 2 | PORCH | unit 2 | B | storm dr | WOOD | POOR | BLUE | Neg | < LOD | < LOD | < LOD | 3.91 | 10 | AM |
| 662 Cottage Ave E | 241 | 1/17/2012 14:36 | 2 | PORCH | unit 2 | D | window casing | WOOD | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 2.17 | 1 | AM |
| 662 Cottage Ave E | 242 | 1/17/2012 14:37 | 2 | PORCH | unit 2 | D | window casing | WOOD | POOR | WHITE | Neg | 0.8 | 0.8 | < LOD | 4.5 | 3.43 | AM |
| 662 Cottage Ave E | 243 | 1/17/2012 14:37 | 2 | PORCH | unit 2 | D | window sill | WOOD | POOR | WHITE | POS | 12.5 | 6.2 | 12.5 | 1.6 | 4.86 | AM |
| 662 Cottage Ave E | 244 | 1/17/2012 14:37 | 2 | PORCH | unit 2 | D | upper trim | WOOD | POOR | WHITE | POS | 7.4 | 7 | 7.4 | 1.74 | 4.03 | AM |
| 662 Cottage Ave E | 245 | 1/17/2012 14:38 | 2 | PORCH | unit 2 | D | DOOR threshold | WOOD | POOR | BLUE | POS | 6.8 | 7.6 | 6.8 | 1.74 | 4.13 | AM |
| 662 Cottage Ave E | 246 | 1/17/2012 14:39 | 2 | PORCH | unit 2 | A | WALL | stucco | POOR | BLUE | POS | 11.1 | 5.1 | 11.1 | 1.75 | 4.19 | AM |
| 662 Cottage Ave E | 247 | 1/17/2012 14:39 | 2 | PORCH | unit 2 | B | WALL | stucco | POOR | BLUE | POS | 15.4 | 4.1 | 15.4 | 1.6 | 3.75 | AM |
| 662 Cottage Ave E | 248 | 1/17/2012 14:39 | 2 | PORCH | unit 2 | C | WALL | stucco | POOR | BLUE | POS | 8.6 | 3.8 | 8.6 | 2.02 | 4.83 | AM |
| 662 Cottage Ave E | 249 | 1/17/2012 14:40 | 2 | PORCH | unit 2 | D | WALL | stucco | POOR | BLUE | POS | 4.1 | 4.1 | 8.2 | 1.89 | 3.64 | AM |
| 662 Cottage Ave E | 250 | 1/17/2012 14:41 | 2 | PORCH | unit 2 | D | FLOOR | vinyl | POOR | BLUE | Neg | < LOD | 0.4 | < LOD | 12.28 | 10 | AM |
| 662 Cottage Ave E | 251 | 1/17/2012 14:41 | 2 | PORCH | unit 2 | D | BASEBOARD | vinyl | POOR | WHITE | POS | 7.5 | < LOD | 7.5 | 2.18 | 1 | AM |
| 662 Cottage Ave E | 252 | 1/17/2012 14:42 | 2 | PORCH | unit 2 | | CEILING | WOOD | INTACT | WHITE | Neg | < LOD | < LOD | < LOD | 1.74 | 1.67 | AM |
| 662 Cottage Ave E | 253 | 1/17/2012 14:42 | 2 | PORCH | unit 2 | | CEILING | WOOD | INTACT | WHITE | Neg | < LOD | < LOD | < LOD | 2.18 | 1 | AM |
| 662 Cottage Ave E | 254 | 1/17/2012 14:44 | | OUTSIDE | | D | DOOR | METAL | INTACT | WHITE | Neg | < LOD | < LOD | < LOD | 3.19 | 1 | AM |
| 662 Cottage Ave E | 255 | 1/17/2012 14:48 | | OUTSIDE | | D | DOOR | METAL | INTACT | WHITE | Neg | < LOD | < LOD | < LOD | 2.32 | 1.59 | AM |
| 662 Cottage Ave E | 256 | 1/17/2012 14:48 | | OUTSIDE | | D | WINDOW | METAL | INTACT | WHITE | Neg | < LOD | < LOD | < LOD | 2.17 | 4.72 | AM |
| 662 Cottage Ave E | 257 | 1/17/2012 14:48 | | OUTSIDE | | D | sash | WOOD | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 2.17 | 2.64 | AM |
| 662 Cottage Ave E | 258 | 1/17/2012 14:49 | | OUTSIDE | | D | sash | WOOD | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 3.04 | 1.57 | AM |
| 662 Cottage Ave E | 259 | 1/17/2012 14:50 | | OUTSIDE | | C | sash | WOOD | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 2.17 | 1 | AM |
| 662 Cottage Ave E | 260 | 1/17/2012 14:50 | | OUTSIDE | | C | DOOR | WOOD | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 2.18 | 2.68 | AM |
| 662 Cottage Ave E | 261 | 1/17/2012 14:50 | | OUTSIDE | | C | DOOR | WOOD | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 2.18 | 1.58 | AM |
| 662 Cottage Ave E | 262 | 1/17/2012 14:51 | | OUTSIDE | | B | window casing | WOOD | POOR | WHITE | Neg | 0.6 | 0.6 | < LOD | 2.32 | 2.02 | AM |
| 662 Cottage Ave E | 263 | 1/17/2012 14:51 | | OUTSIDE | | B | window casing | WOOD | POOR | WHITE | Neg | 0.28 | 0.28 | < LOD | 1.59 | 1.44 | AM |
| 662 Cottage Ave E | 264 | 1/17/2012 14:52 | | OUTSIDE | | B | window casing | METAL | INTACT | WHITE | POS | 1.8 | 0.5 | 1.8 | 3.76 | 10 | AM |
| 662 Cottage Ave E | 265 | 1/17/2012 14:53 | | OUTSIDE | | B | siding | stucco | FAIR | BLUE | POS | 17.1 | 2.6 | 17.1 | 2.6 | 4.58 | AM |
| 662 Cottage Ave E | 266 | 1/17/2012 14:53 | | OUTSIDE | | C | siding | stucco | FAIR | BLUE | Neg | < LOD | < LOD | < LOD | 3.76 | 2.49 | AM |
| 662 Cottage Ave E | 267 | 1/17/2012 14:54 | | OUTSIDE | | D | siding | stucco | FAIR | BLUE | POS | 14 | 3.2 | 14 | 1.59 | 4.89 | AM |
| 662 Cottage Ave E | 268 | 1/17/2012 14:54 | | OUTSIDE | | A | siding | stucco | FAIR | BLUE | POS | 14 | 3.1 | 14 | 2.6 | 6.95 | AM |
| 662 Cottage Ave E | 269 | 1/17/2012 14:55 | | OUTSIDE | | A | siding | WOOD | FAIR | BLUE | Neg | < LOD | < LOD | < LOD | 3.18 | 2.4 | AM |
| 662 Cottage Ave E | 270 | 1/17/2012 14:55 | | OUTSIDE | | A | soffit | WOOD | POOR | WHITE | POS | 20.1 | 5.5 | 20.1 | 1.6 | 6.95 | AM |
| 662 Cottage Ave E | 271 | 1/17/2012 14:56 | | OUTSIDE | | C | deck flr | WOOD | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 2.17 | 1 | AM |
| 662 Cottage Ave E | 272 | 1/17/2012 14:57 | | OUTSIDE | | C | deck flr | WOOD | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 2.18 | 1 | AM |
| 662 Cottage Ave E | 273 | 1/17/2012 14:57 | | PORCH | | C | deck flr | WOOD | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 2.18 | 1 | AM |
| 662 Cottage Ave E | 274 | 1/17/2012 14:58 | | PORCH | | C | WALL | WOOD | POOR | BLUE | Neg | < LOD | < LOD | < LOD | 2.17 | 1 | AM |
| 662 Cottage Ave E | 275 | 1/17/2012 14:58 | | PORCH | | C | WINDOW | WOOD | POOR | BLUE | Neg | < LOD | < LOD | < LOD | 1.6 | 1 | AM |
| 662 Cottage Ave E | 276 | 1/17/2012 14:58 | | PORCH | | | CEILING | WOOD | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 1.74 | 1 | AM |

St. Croix Environmental
662 Cottage Ave E
St. Paul MN

| Site | XRF # | Date/Time | Floor | Room | Unit # | Side | Component | Substrate | Condition | Color | Results | PbC | PbL | PbK | Duration | Depth | Insp. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 662 Cottage Ave E | 277 | 1/17/2012 14:59 | | PORCH | | B | WINDOW | WOOD | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 2.17 | 1.72 | AM |
| 662 Cottage Ave E | 278 | 1/17/2012 14:59 | | PORCH | | B | WINDOW | WOOD | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 3.19 | 1.74 | AM |
| 662 Cottage Ave E | 279 | 1/17/2012 14:59 | | PORCH | | B | DOOR | WOOD | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 3.76 | 6.54 | AM |
| 662 Cottage Ave E | 280 | 1/17/2012 15:00 | | PORCH | | B | DOOR | WOOD | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 2.18 | 1 | AM |
| 662 Cottage Ave E | 281 | 1/17/2012 15:00 | | PORCH | | B | DOOR | WOOD | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 2.17 | 1.18 | AM |
| 662 Cottage Ave E | 282 | 1/17/2012 15:00 | | PORCH | | D | DOOR | METAL | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 2.18 | 1.64 | AM |
| 662 Cottage Ave E | 283 | 1/17/2012 15:00 | | PORCH | | D | DOOR | WOOD | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 2.17 | 1 | AM |
| 662 Cottage Ave E | 284 | 1/17/2012 15:01 | | PORCH | | D | WALL | stucco | POOR | BLUE | POS | 17.7 | 2.5 | 17.7 | 1.6 | 4.94 | AM |
| 662 Cottage Ave E | 285 | 1/17/2012 15:02 | | GARAGE | | D | siding | WOOD | POOR | BLUE | POS | 1.2 | 1.2 | < LOD | 6.36 | 1.95 | AM |
| 662 Cottage Ave E | 286 | 1/17/2012 15:03 | | GARAGE | | D | soffit | WOOD | POOR | WHITE | Null | < LOD | < LOD | < LOD | 0.87 | 3.5 | AM |
| 662 Cottage Ave E | 287 | 1/17/2012 15:03 | | GARAGE | | D | soffit | WOOD | POOR | WHITE | Null | < LOD | < LOD | < LOD | 0.58 | 2.38 | AM |
| 662 Cottage Ave E | 288 | 1/17/2012 15:03 | | GARAGE | | D | soffit | WOOD | POOR | WHITE | POS | 7.3 | 2.7 | 7.3 | 1.89 | 5.94 | AM |
| 662 Cottage Ave E | 289 | 1/17/2012 15:04 | | GARAGE | | D | TRIM | WOOD | POOR | WHITE | Null | 1.1 | 1.1 | 0.8 | 7.97 | 1.6 | AM |
| 662 Cottage Ave E | 290 | 1/17/2012 15:05 | | GARAGE | | D | TRIM | WOOD | POOR | WHITE | POS | 1 | 1 | 0.7 | 21.06 | 1.64 | AM |
| 662 Cottage Ave E | 291 | 1/17/2012 15:06 | | GARAGE | | D | DOOR | WOOD | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 2.18 | 2.17 | AM |
| 662 Cottage Ave E | 292 | 1/17/2012 15:06 | | GARAGE | | D | WINDOW | WOOD | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 2.18 | 3.74 | AM |
| 662 Cottage Ave E | 293 | 1/17/2012 15:06 | | GARAGE | | A | WINDOW | WOOD | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 2.16 | 4.06 | AM |
| 662 Cottage Ave E | 294 | 1/17/2012 15:07 | | GARAGE | | A | DOOR | WOOD | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 2.02 | 1.66 | AM |
| 662 Cottage Ave E | 295 | 1/17/2012 15:07 | | GARAGE | | A | siding | WOOD | POOR | BLUE | Neg | < LOD | < LOD | < LOD | 2.33 | 1 | AM |
| 662 Cottage Ave E | 296 | 1/17/2012 15:07 | | GARAGE | | A | TRIM | WOOD | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 2.17 | 1 | AM |
| 662 Cottage Ave E | 297 | 1/17/2012 15:13 | 2 | STAIR back | unit 2 | C | DOOR | METAL | POOR | BROWN | Neg | < LOD | < LOD | < LOD | 2.32 | 1.94 | AM |
| 662 Cottage Ave E | 298 | 1/17/2012 15:13 | 2 | STAIR back | unit 2 | C | dr casing | WOOD | POOR | BROWN | Neg | < LOD | < LOD | < LOD | 2.16 | 2.27 | AM |
| 662 Cottage Ave E | 299 | 1/17/2012 15:13 | 2 | STAIR back | unit 2 | B | BASEBOARD | WOOD | POOR | BROWN | POS | 9.9 | 10.1 | 9.9 | 1.74 | 5.33 | AM |
| 662 Cottage Ave E | 300 | 1/17/2012 15:14 | 2 | STAIR back | unit 2 | B | handrail | WOOD | POOR | BROWN | Neg | < LOD | < LOD | < LOD | 2.17 | 1.46 | AM |
| 662 Cottage Ave E | 301 | 1/17/2012 15:16 | 2 | STAIR back | unit 2 | D | RISER | WOOD | POOR | BROWN | Neg | 0.8 | 0.23 | 0.8 | 34.41 | 10 | AM |
| 662 Cottage Ave E | 302 | 1/17/2012 15:17 | 2 | STAIR back | unit 2 | D | RISER | WOOD | POOR | BROWN | Neg | < LOD | < LOD | < LOD | 2.17 | 1 | AM |
| 662 Cottage Ave E | 303 | 1/17/2012 15:17 | 2 | STAIR back | unit 2 | D | RISER | WOOD | POOR | BROWN | Neg | < LOD | < LOD | < LOD | 3.18 | 1.42 | AM |
| 662 Cottage Ave E | 304 | 1/17/2012 15:17 | 2 | STAIR back | unit 2 | D | DOOR | METAL | POOR | BROWN | Neg | < LOD | < LOD | < LOD | 2.18 | 1 | AM |
| 662 Cottage Ave E | 305 | 1/17/2012 15:18 | 2 | STAIR back | unit 2 | D | dr casing | WOOD | POOR | BROWN | Neg | < LOD | < LOD | < LOD | 2.17 | 1 | AM |
| 662 Cottage Ave E | 306 | 1/17/2012 15:18 | 2 | STAIR back | unit 2 | A | WALL | DRYWALL | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 3.32 | 2.84 | AM |
| 662 Cottage Ave E | 307 | 1/17/2012 15:18 | 2 | STAIR back | unit 2 | B | WALL | DRYWALL | POOR | WHITE | Null | < LOD | < LOD | < LOD | 1.3 | 3.09 | AM |
| 662 Cottage Ave E | 308 | 1/17/2012 15:19 | 2 | STAIR back | unit 2 | B | WALL | DRYWALL | POOR | WHITE | POS | 1.7 | < LOD | 1.7 | 6.22 | 1.2 | AM |
| 662 Cottage Ave E | 309 | 1/17/2012 15:19 | 2 | STAIR back | unit 2 | C | WALL | DRYWALL | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 2.31 | 1 | AM |
| 662 Cottage Ave E | 310 | 1/17/2012 15:20 | 2 | STAIR back | unit 2 | D | WALL | DRYWALL | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 3.18 | 10 | AM |
| 662 Cottage Ave E | 311 | 1/17/2012 15:20 | 2 | STAIR back | unit 2 | | CEILING | DRYWALL | POOR | WHITE | Neg | < LOD | < LOD | < LOD | 2.18 | 1.02 | AM |
| 662 Cottage Ave E | 312 | 1/17/2012 15:22 | | | | | calibrate | | | | Neg | 0.9 | 0.9 | < LOD | 5.93 | 1.03 | AM |
| 662 Cottage Ave E | 313 | 1/17/2012 15:23 | | | | | calibrate | | | | POS | 1 | 1 | < LOD | 20.98 | 1.1 | AM |
| 662 Cottage Ave E | 314 | 1/17/2012 15:25 | | | | | calibrate | | | | POS | 1 | 1 | < LOD | 20.82 | 1.1 | AM |